



# RMQ pilot devices

# FAK palm switches

# SL signal towers



The Eaton range of pilot devices combine state-of-the-art design with optimum functionality. Indicator lights and signal towers with LED technology ensure reliable indication of machine states.



The RMQ Titan product range offers contact elements which can be connected to the SmartWire-Darwin communication system.



### Pilot devices with 22.5 mm hole diameter - RMQ-Titan

Modern, ergonomically molded design +++ 100,000 hours LED-illumination +++ Customized laser inscription +++ ATEX-versions possible

### Pilot devices with 16 mm hole diameter - RMQ16

Extremely compact +++ Installation in smallest space +++ Customized laser inscription

### Emergency stop pushbuttons/ Emergency switching off pushbuttons

Mushroom form +++ Palm form 45 mm, 60 mm +++ With illuminated ring +++ Mechanical switch position indicator +++ Security standards up to SIL3 (EN 62061) or Performance Level e (ISO 13849-1)



### FAK foot and palm switches

High protection type IP69 +++ Suitable for use in rough environments +++ Extremely robust

### SL signal towers

Optical and acoustic machine state display +++ Flexibly combinable +++ Simple mounting



## System overview

RMQ-Titan pilot devices	2/2
EMERGENCY STOP/EMERGENCY SWITCHING OFF devices	2/4

## Ordering

Complete units for the flush mounting (EMERGENCY STOP/EMERGENCY SWITCHING OFF)	2/6
Complete units for the surface mounting (EMERGENCY STOP/EMERGENCY SWITCHING OFF)	2/6
EMERGENCY STOP/EMERGENCY SWITCHING OFF pushbuttons	2/7
EMERGENCY STOP/EMERGENCY SWITCHING OFF pushbuttons accessories	2/10
EMERGENCY STOP/EMERGENCY SWITCHING OFF pushbuttons labels	2/11
STOP/OFF pushbuttons	2/13
Complete units for flush mounting	2/14
Complete units for surface mounting	2/15
Double actuators	2/16
Pushbutton actuators	2/17
Mushroom-headed pushbutton	2/19
Selector switch actuators	2/20
Key-operated buttons	2/21
Four-way operators, 4 positions	2/24
Indicator lights	2/26
Potentiometers, acoustic devices	2/27
Illuminated pushbutton actuators	2/28
Illuminated selector switch actuators	2/30
Fixing adapters	2/31
Contact elements	2/31
LED elements	2/33
LED series resistor element	2/34
Legend holder, insert labels	2/35
Button plates for pushbutton actuators	2/36
Button plates for mushroom-headed pushbuttons	2/38
Lenses for indicator lights	2/40
Button lenses for illuminated pushbutton actuators	2/42
Flush mounting plates, Shrouds	2/44
Surface mounting enclosures	2/45
AS-Interface	2/47
Accessories	2/48

## Engineering

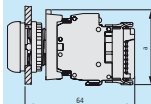
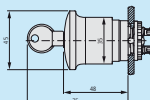
EMERGENCY STOP/EMERGENCY SWITCHING OFF/ Self-monitoring contact	2/52
Spring-return, plunger bridge, Labeleditor	2/53
LED elements	2/54

## Technical data

RMQ-Titan pilot devices	2/55
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## Dimensions

RMQ-Titan pilot devices	2/59
-------------------------	------



## System overview

SWD components	2/66
----------------	------

## Ordering

SWD components	2/68
----------------	------

## Technical data

SWD components	2/72
----------------	------

## Dimensions

SWD components	2/76
----------------	------

## System overview

FAK foot and palm switches	2/77
----------------------------	------

## Ordering

FAK foot and palm switch	2/78
--------------------------	------

## Technical data

FAK foot and palm switch	2/80
--------------------------	------

## Dimensions

FAK foot and palm switch	2/81
--------------------------	------

## System overview

RMQ16 pilot devices	2/82
---------------------	------

## Ordering

Pushbuttons	2/84
Illuminated pushbutton actuators	2/85
Selector switch actuators	2/86
Illuminated selector switch actuators	2/86
Key-operated buttons	2/88
Indicator lights	2/89
Emergency-stop pushbutton, Emergency-stop labels	2/90
Marking plates	2/91
Insert plates, legend holder	2/94
Enclosure	2/95
Accessories	2/96

## Technical data

RMQ16 pilot devices	2/98
---------------------	------

## Dimensions

RMQ16 pilot devices	2/100
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## System overview

SL signal towers	2/102
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## Ordering

Complete units, modules	2/104
Modules	2/105
Accessories	2/107

## Technical data

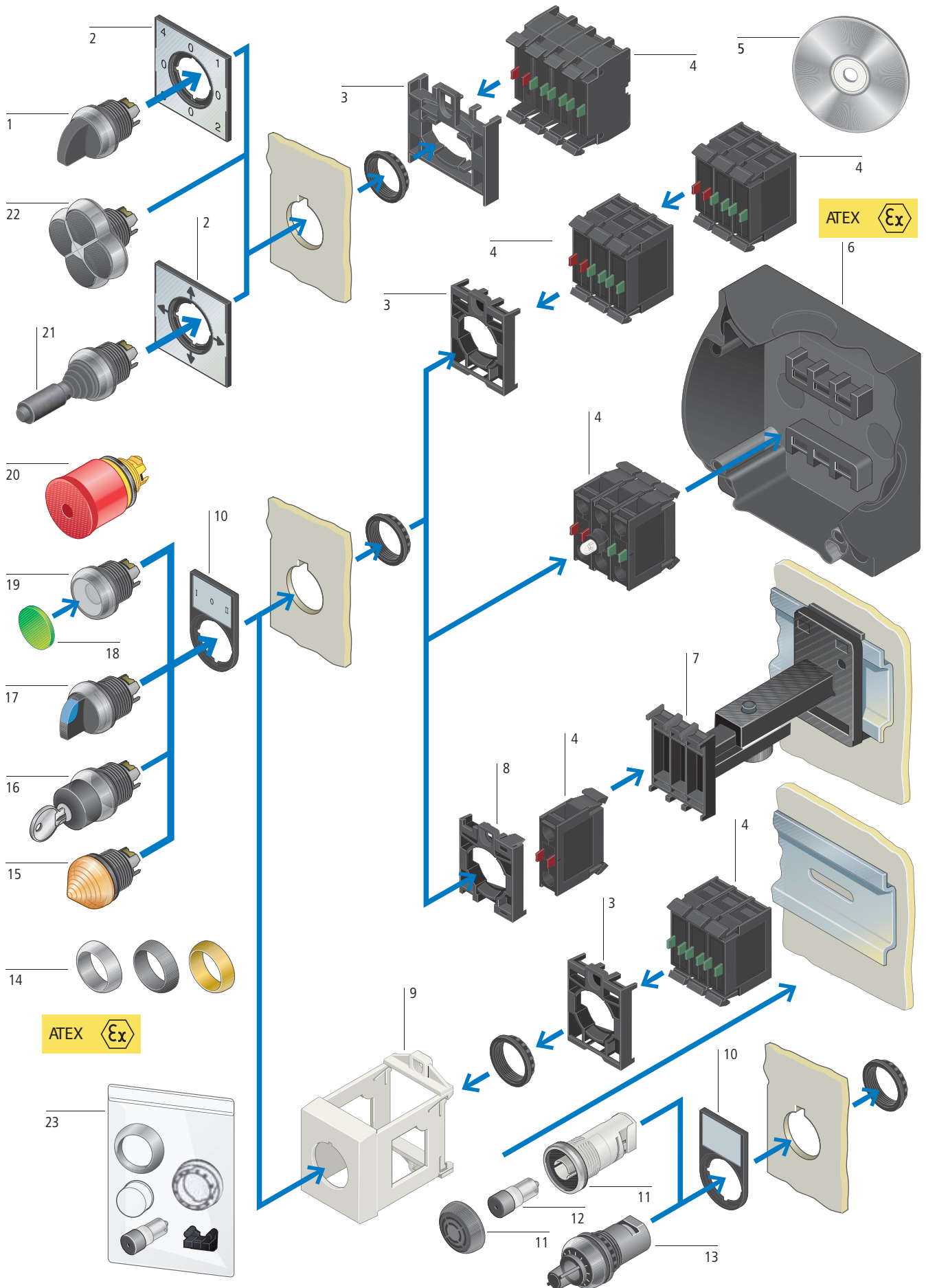
SL signal towers	2/108
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## Dimensions

SL signal towers	2/109
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System overview





<b>4-way selector switch actuators</b>	1	<b>Telescopic clip</b>	7	<b>Key-operated buttons</b>	16
4 positions		For mounting depth compensation when rear mounting devices in CI enclosures, CI-K enclosures and cabinets		2 and 3 positions	
With rotary head or thumb-grip				Programmable maintained/momentary function and key withdraw	
Maintained function 0-1-0-2-0-3-0-4				Suitable for master key systems	
→ Page 2/20		→ Page 2/48		→ Page 2/21	
<b>Labels with label mounts</b>	2	<b>Centring adapter</b>	8	<b>Selector switch actuators</b>	17
Colour: aluminium-coloured		For centring of actuator and indicator elements when using telescopic clip		2 and 3 positions	
Labels: inscribed, can be inscribed individually, blank				With rotary head, thumb-grip	
→ Page 2/25		→ Page 2/48		Programmable maintained/momentary function	
<b>Fixing adapters</b>	3	<b>IVS top-hat rail adapter</b>	9	Illuminated selector switch actuators with transparent thumb-grip	
For flush mounting plates		for fitting directly onto IEC/EN 60175 mounting rail		Colours: white, green, red, yellow, blue	
for contact and LED elements, M22-A...		→ Page 2/49		→ Page 2/20	
for contact elements, M22-A4		<b>Label mounts</b>	10	<b>Button plates/Button lenses</b>	18
→ Page 2/31		For insert labels		Laser inscription for pushbutton actuators and mushroom-headed pushbutton	
<b>(Double) contact elements</b>	4	Colour: black		Button lenses for illuminated pushbutton actuators and indicator lights, flat	
Normally closed contact (NC) and normally open contact (N/O)		Insert labels, aluminium-colored, with and without inscription, can be engraved		With standard texts and symbols or with custom labelling	
Universalcontacts suitable for use with electronic devices		→ Page 2/35		→ Page 2/36	
Positive opening safety function according to IEC/EN 60947-5-1		<b>Acoustic device</b>	11	<b>Pushbutton actuators</b>	19
Maximum 2 levels, each with 3 contact elements		Protection type IP40 without buzzer		Momentary and maintained	
→ Page 2/31		→ Page 2/27		Flat and extended	
<b>LED elements</b>	4	<b>Buzzer</b>	12	with and without guard ring	
Voltage range: 12 – 30 V AC/DC		Continuous tone, pulsed tone		Mushroom-headed pushbutton	
85 – 264 V AC		18 - 30 V AC/DC		Double actuators	
→ Page 2/33		→ Page 2/27		Colours: white, green, red, yellow, blue, black	
<b>Labeling with convenience</b>	5	<b>Potentiometer</b>	13	Illuminated pushbutton actuators	
All button plates, indicator lights and additional button labels from the RMQ-Titan range can be laser inscribed with any inscription and symbol as required.		Resistance values from 470 kΩ - 1 MΩ		Colours: white, green, red, yellow, blue	
Download: <a href="http://www.moeller.net/de/support">www.moeller.net/de/support</a> , Keyword: "Labeleditor"		3 individual connections		→ Page 2/17	
		With screw terminals		<b>Emergency stop pushbuttons/ Emergency switching off pushbuttons</b>	20
		→ Page 2/27		Tamper-proof according to ISO 13850/EN 418	
<b>Surface mounting enclosure</b>	6	<b>Bezels</b>	14	Can be secured by sealable shroud	
Surface mounting enclosures IP67 up to 6 mounting locations		• Silver		Additional labels, with and without inscription	
Surface mounting enclosures IP55 up to 12 mounting locations		• Black		→ Page 2/8	
Flush mounting panel, IP54, up to 6 mounting locations		• 24 carat gold can only be ordered via M22-Combination		<b>Joystick</b>	21
Shrouds IP40 for flush mounting panels		→ Page 2/48		4 positions	
→ Page 2/45		<b>Indicator lights</b>	15	→ Page 2/24	
		Flat and conical designs		<b>4-way pushbutton</b>	22
		Colours: white, green, red, yellow, blue		4 positions	
		→ Page 2/26		Pushbutton actuators, momentary	
				→ Page 2/24	
		<b>Accessories devices</b>	23		
		→ Page 2/48			

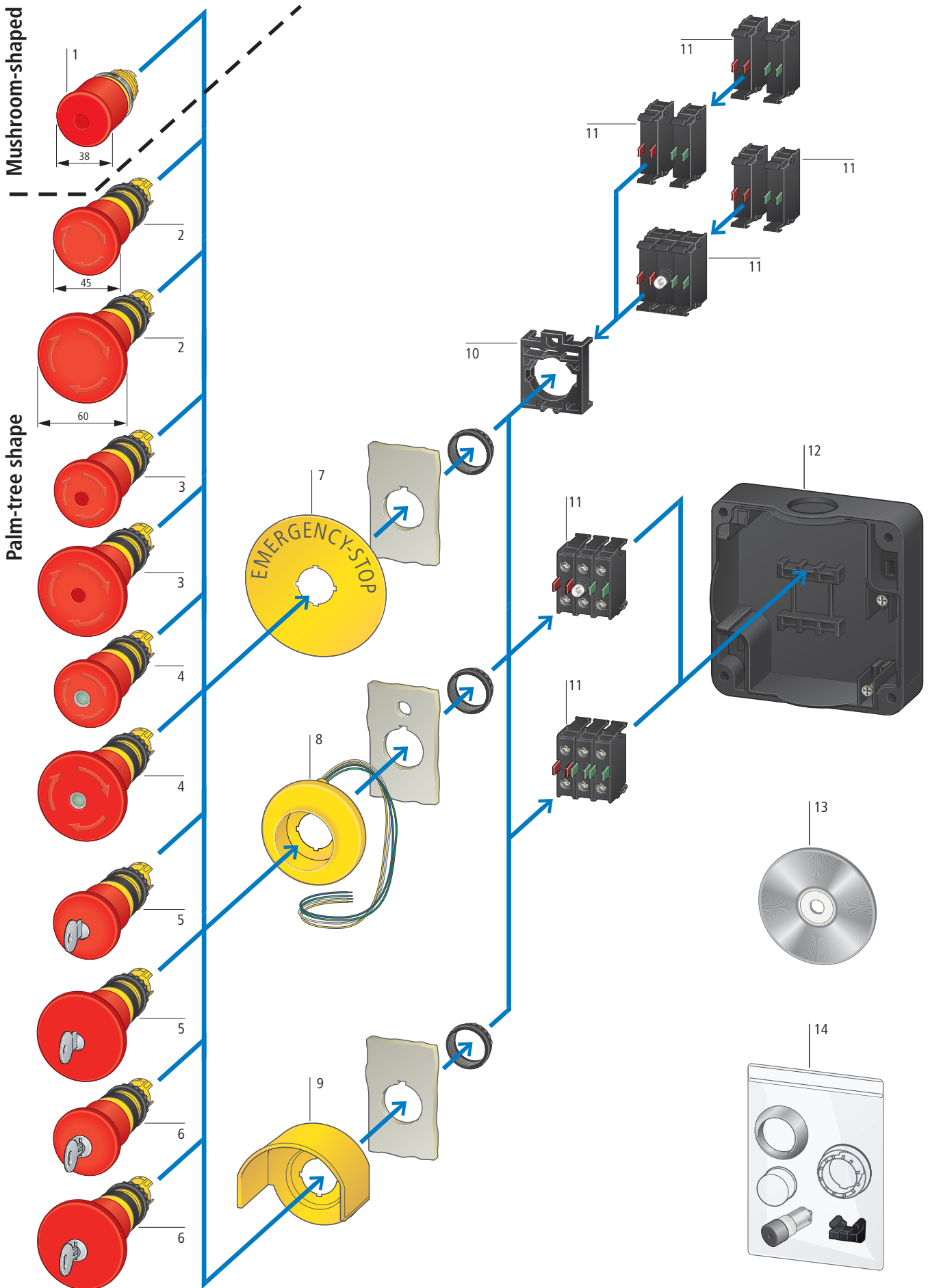
**Product Features**

- Order with the designation M22-COMBINATION → Page 2/6 and the suffix M22-ATEX or FAK-COMBINATION- → Page 2/78 with the suffix FAK-ATEX → Page 2/45
- Snap-fitting modular system
- bezel silver, black or gold
- Mounting diameter: 22.3 mm
- Minimum grid dimension: 30 x 40 mm
- Protection type: minimum IP66
- Up to 6 contacts per mounting location
- For switching differing potentials
- Approved throughout the world





System overview





<b>Emergency stop pushbuttons Emergency switching off pushbuttons</b>	1
<b>Mushroom-shaped</b>	
Non-illuminated	
Illuminated with LED	
with Lock mechanism MS1–MS20	
with lock mechanism for master key system	
Tamper-proof according to ISO 13850/EN 418	
European Machinery Safety Directive 2006/42/EC	
Can be secured by sealable shroud	
Additional labels, with and without inscription	
Release by turning	
→ Page 2/7	
<b>Emergency stop pushbuttons Emergency switching off label</b>	2
<b>Palm-tree shape</b>	
Non-illuminated	
Diameter 45 mm and 60 mm	
Tamper-proof according to ISO 13850/EN 418	
European Machinery Safety Directive 2006/42/EC	
Additional labels, with and without inscription	
Release by turning	
→ Page 2/8	
<b>Emergency stop pushbuttons Emergency switching off pushbuttons</b>	3
<b>Palm-tree shape</b>	
Illuminated with LED	
Diameter 45 mm and 60 mm	
Tamper-proof according to ISO 13850/EN 418	
European Machinery Safety Directive 2006/42/EC	
Additional labels, with and without inscription	
Release by turning	
→ Page 2/8	
<b>Emergency stop pushbuttons Emergency switching off pushbuttons</b>	4
<b>Palm-tree shape</b>	
with mechanical operated indicator	
Diameter 45 mm and 60 mm	
Tamper-proof according to ISO 13850/EN 418	
European Machinery Safety Directive 2006/42/EC	
Additional labels, with and without inscription	
Release by turning	
→ Page 2/9	

<b>Emergency stop pushbuttons Emergency switching off pushbuttons</b>	5
<b>Palm-tree shape</b>	
with lock mechanism MS1–MS20	
Diameter 45 mm and 60 mm	
Tamper-proof according to ISO 13850/EN 418	
European Machinery Safety Directive 2006/42/EC	
Additional labels, with and without inscription	
Release by turning	
→ Page 2/8	
<b>Emergency stop pushbuttons Emergency switching off pushbuttons</b>	6
<b>Palm-tree shape</b>	
with Ronis 455 lock mechanism	
Diameter 45 mm and 60 mm	
Tamper-proof according to ISO 13850/EN 418	
European Machinery Safety Directive 2006/42/EC	
Can be secured by sealable shroud	
Additional labels, with and without inscription	
Release by turning or pulling	
→ Page 2/9	
<b>Emergency stop labels Emergency switching off label</b>	7
Round, square, and rectangular types	
Single-language, multi-language, can be individually labeled	
→ Page 2/11	
<b>Illuminated ring</b>	8
Versions: 24 V AC/DC, 120 V AC, 230 V AC	
Continuous light	
Flashing light with separate actuation	
Continuous light with separate actuation, 24 V AC/DC	
can be actuated separately with three LED rows	
→ Page 2/10	
<b>Guardring</b>	9
against accidental actuation	
for 38 mm and 45 mm designs	
→ Page 2/10	

<b>Mounting adapter</b>	10
For flush mounting plates	
for contact and LED elements, M22-A...	
for contact elements, M22-A4	
→ Page 2/31	
<b>Contact elements, indicator lights</b>	11
Normally open contact and normally closed contact	
Universalcontacts suitable for use with electronic devices	
Positive opening safety function according to IEC/EN 60947-5-1	
Up to 2 levels with 3 contact elements each	
→ Page 2/31	
<b>Surface mounting enclosure</b>	12
Surface mounting enclosures IP67 up to 6 mounting locations	
Surface mounting enclosures IP55 up to 12 mounting locations	
Flush mounting plate, IP54, up to 6 mounting locations	
Shrouds IP40 for flush mounting	
→ Page 2/45	
<b>Labeling with convenience</b>	13
All button plates, indicator lights and additional button labels from the RMQ-Titan range can be laser inscribed with any inscription and symbol as required.	
Download: <a href="http://www.moeller.net/de/support">www.moeller.net/de/support</a>	
Keyword: "Labeleditor"	
<b>Accessories</b>	14
→ Page 2/48	



		Contact configuration: ☉ = Safety function by positive opening according to IEC/EN 60947-5-1 N/O = normally open contact    NC = normally closed contact	Circuit symbol	Protection type	Part no. Article no.	Price See price list	Std. pack	Notes	
<b>Emergency switching-off actuators</b>									
Tamper-proof according to ISO 13850/EN 418 Pull to release Max. contacts to be fitted together: 4 x M22-(C)K... Red mushroom head (RAL 3000), yellow base									
	-	1 NC ☉		IP66, IP69K	<b>M22-PV/K01</b> 216515		5 off 	 <b>BAUART GEPRÜFT</b> TYPE APPROVED  	
	1 N/O	1 NC ☉		IP66, IP69K	<b>M22-PV/K11</b> 216516		5 off 		
<b>Emergency switching-off key-release mushroom</b>									
Tamper-proof according to ISO 13850/EN 418 with one key, individual lock mechanism MS1, not suitable for master key systems Release by using the key Red mushroom head (RAL 3000), yellow base									
	-	1 NC ☉		IP66, IP69K	<b>M22-PVS/K01</b> 216514		5 off 	 <b>BAUART GEPRÜFT</b> TYPE APPROVED	
							Bezel: silver		
Number of locations	Contact configuration: ☉ = Safety function by positive opening according to IEC/EN 60947-5-1	Circuit symbol	Enclosure top	RAL value	Protection type	Part no. Article no.	Price See price list	Std. pack	
	Number    N/O = normally open    NC = normally closed								
<b>Emergency switching-off actuators</b>									
Tamper-proof according to ISO 13850/EN 418 Pull to release									
	-	2 NC ☉		●	IP66, IP69K	<b>M22-PV/KC02/IY</b> 216524		1 off 	
	-	1 N/O	1 NC ☉	●	IP66, IP69K	<b>M22-PV/KC11/IY</b> 216525		1 off 	
<b>Emergency switching-off key-release mushroom</b>									
with 1 key Lock mechanism MS1									
	1	1 N/O		●	IP67, IP69K	<b>M22-PVS/KC11/IY</b> 216523		1 off 	
<b>customized complete unit</b>						<b>M22-COMBINATION-*</b> 228298		1 off	
To order use form F0315 → Data sheet in Online Catalog * = Freely selectable customer identification or stock no.; max. 10 characters.									

Notes

Information relevant for export to North America



Product Standards	IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking
UL File No.	E29184
UL CCN	NKCR
CSA File No.	012528
CSA Class No.	3211-03
NA Certification	UL Listed, CSA certified
Degree of Protection	UL/CSA Type 3R, 4X, 12, 13

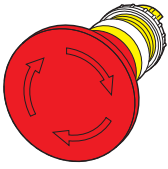

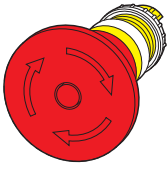

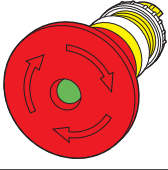

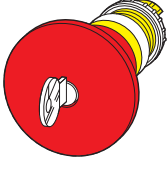



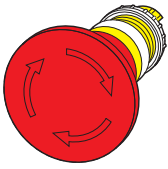

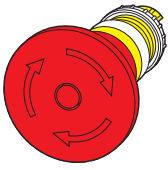



	Illumination		Colour mushroom head	RAL no.	Protection type	Bezel: silver Part no. Article no.	Price See price list	Std. pack
<b>Emergency stop pushbutton/Emergency switch-off actuators</b>								
Release by pulling Mushroom button diameter 38 mm ATEX  → Engineering								
	Non-illuminated	Pull to release		RAL 3000	IP66, IP69K	<b>M22-PV</b> 216876		5 off 
	Non-illuminated	Pull to release		RAL 3000	IP66, IP69K	<b>M22-PV-GVP</b> 216877		50 off 
	Illuminated with LED element	Pull to release		RAL 3000	IP66, IP69K	<b>M22-PVL</b> 216878		5 off 
<b>Emergency stop pushbutton/Emergency switch-off actuators</b>								
Release by turning Mushroom button diameter 38 mm ATEX  → Engineering								
	Non-illuminated	Turn to release		RAL 3000	IP67, IP69K	<b>M22-PVT</b> 263467		5 off 
	Illuminated with LED element	Turn to release		RAL 3000	IP67, IP69K	<b>M22-PVLT</b> 263469		5 off 
<b>Emergency stop pushbutton/Emergency switch-off actuators</b>								
Release by turning with key Mushroom button diameter 38 mm With 1 key ATEX  → Engineering								
	Non-illuminated	Individual lock mechanism MS1 Not suitable for master key systems		RAL 3000	IP67, IP69K	<b>M22-PVS</b> 216879		5 off 
	Non-illuminated	Individual lock mechanism MS1 - MS20 not suitable for master key systems *→1, 2, 3, ...20		RAL 3000	IP67, IP69K	<b>M22-PVS-MS*</b> 216880		1 off 
	Non-illuminated	suitable for master key systems To order use form F0276 → Data sheet in Online Catalog Delivery time about 4 to 6 weeks For master key systems see → Page 2/23		RAL 3000	IP67, IP69K	<b>M22-PVS-SA(*)</b> .* 104826		1 off 

**Information relevant for export to North America**



Product Standards	IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking
UL File No.	E29184
UL CCN	NKCR
CSA File No.	012528
CSA Class No.	3211-03
NA Certification	UL Listed, CSA certified
Degree of Protection	UL/CSA Type 3R, 4X, 12, 13

Illumination		Colour mushroom head	RAL no.	Protection type	Bezel: silver Part no. Article no.	Price See price list	Std. pack
<b>Emergency stop pushbutton actuators</b>							
Release by turning Palm-shaped, diameter 45 mm							
	Non-illuminated	–	●	RAL 3000	IP67, IP69K	<b>M22-PVT45P</b> 121462	1 off 
	Illuminated with LED element	–	●	RAL 3000	IP67, IP69K	<b>M22-PVLT45P</b> 121460	1 off 
<b>Emergency stop pushbutton actuators</b>							
with mechanical switch position indication Release by turning Palm-shaped, diameter 45 mm							
	Non-illuminated	Switch position indication green → pushbutton released Switch position indicator red → pushbutton actuated	●	RAL 3000	IP67, IP69K	<b>M22-PVT45P-MPI</b> 121463	1 off 
<b>Emergency stop pushbutton actuators</b>							
Release by turning with key Palm-shaped, diameter 45 mm With 1 key							
	Non-illuminated	Individual lock mechanism MS1 Not suitable for master key systems	●	RAL 3000	IP67, IP69K	<b>M22-PVS45P-MS1</b> 121468	1 off 
	Non-illuminated	Individual lock mechanisms MS1 - MS20 Not suitable for master key systems *→1, 2, 3, ...20	●	RAL 3000	IP67, IP69K	<b>M22-PVS45P-MS*</b> 121470	1 off 
	Non-illuminated	Individual lock mechanism Ronis 455 Not suitable for master key systems	●	RAL 3000	IP67, IP69K	<b>M22-PVS45P-RS</b> 121466	1 off 
<b>Emergency stop pushbutton actuators</b>							
Release by turning Palm-shaped, diameter 60 mm							
	Non-illuminated	–	●	RAL 3000	IP67, IP69K	<b>M22-PVT60P</b> 121464	1 off 
	Illuminated with LED element	–	●	RAL 3000	IP67, IP69K	<b>M22-PVLT60P</b> 121461	1 off 

Information relevant for export to North America

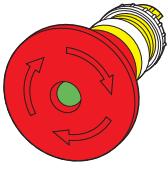


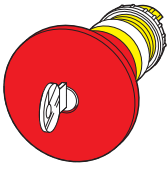








NA Certification

Request filed for UL and CSA













Illumination		Colour mushroom head	RAL no.	Protection type	Bezel: silver Part no. Article no.	Price See price list	Std. pack
<b>Emergency stop pushbutton actuators</b>							
with mechanical switch position indication Release by turning Palm-shaped, diameter 60 mm							
	Non-illuminated	Switch position indication green → pushbutton released Switch position indication red → pushbutton actuated	●	RAL 3000	IP67, IP69K	<b>M22-PVT60P-MPI</b> 121465	1 off  
	<b>Emergency stop pushbutton/Emergency switching-off pushbuttons</b>						
Release by turning with key Palm-shaped, diameter 60 mm With 1 key							
	Non-illuminated	Individual lock mechanism MS1 Not suitable for master key systems	●	RAL 3000	IP67, IP69K	<b>M22-PVS60P-MS1</b> 121469	1 off  
	Non-illuminated	Individual lock mechanisms MS1 - MS20 Not suitable for master key systems *→1, 2, 3, ...20	●	RAL 3000	IP67, IP69K	<b>M22-PVS60P-MS*</b> 121471	1 off  
	Non-illuminated	Individual lock mechanism Ronis 455 not suitable for master key systems	●	RAL 3000	IP67, IP69K	<b>M22-PVS60P-RS</b> 121467	1 off  

**Information relevant for export to North America**






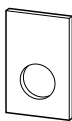






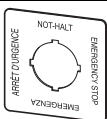









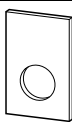











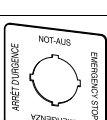







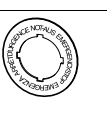

NA Certification


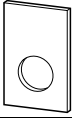



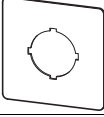

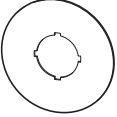





Request filed for UL and CSA

	RAL value	Protection type	Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America 
<b>Guard-ring</b>						
Protection against accidental actuation						
	RAL 1004	IP65	<b>M22-XGPV</b> 231273		1 off 	Product Standards IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking UL File No. E29184 UL CCN NKCR CSA File No. 012528 CSA Class No. 3211-03 NA Certification UL Listed, CSA certified Degree of Protection UL/CSA Type 3R, 4X, 12, 13
<b>Sealable shroud</b>						
For devices with mushroom diameter 38 mm transparent with collapse point, can be reused after Emergency Stop/switching off in a 30 × 50 grid, adjacent drilling dimensions must be closed with blanking plugs M22(S)-B						
	–	IP65	<b>M22-PL-PV</b> 216397		2 off 	UL/CSA certification not required
<b>LED-Illuminated ring</b>						
Yellow with yellow LEDs → Engineering (circuit diagrams)						
60 mm diameter 24 V AC/DC Three groups of 4 LEDs each (in series), can be actuated separately (e.g. for run light)			<b>M22-XPV60-Y-24</b> 121477		1 off 	NA Certification Request filed for UL and CSA
60 mm diameter 120 V AC One group of 8 LEDs (in series)			<b>M22-XPV60-Y-120</b> 121476		1 off 	
60 mm diameter 230 V AC One group of 8 LEDs (in series)			<b>M22-XPV60-Y-230</b> 138280		1 off 	
<b>Customized complete unit</b>						
→ Engineering To order use form F0315 → Data sheet in Online Catalog * = Freely selectable customer identification or stock no.; max. 10 characters.						
			<b>M22-COMBINATION-*</b> 228298		1 off	


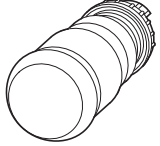


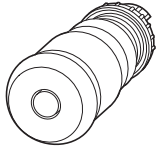



Note: Contact elements → Page 2/32



Inscription	Language	RAL value	Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America  
<b>Emergency-stop labels, IP66</b>						
ATEX  → Engineering Lettering black						
	Emergency-stop	en	 RAL 1004	<b>M22-XZK1-D99</b> 121089	  	UL/CSA certification not required
	Arresto di emergenza	it	 RAL 1004	<b>M22-XZK1-I99</b> 121370		
	HÄTÄPYSÄYTYS	fi	 RAL 1004	<b>M22-XZK1-SF99</b> 121371		
	Quadilingual	de, en, fr, it	 RAL 1004	<b>M22-XYK11</b> 121373		
	Quadilingual	de, en, fr, it	 RAL 1004	<b>M22-XAK11</b> 121085		
	Quadilingual	de, en, es, pt	 RAL 1004	<b>M22-XAK12</b> 121086		
	Quadilingual	de, en, nl, fr	 RAL 1004	<b>M22-XAK13</b> 121087		
	Quadilingual	en, sv, fi, da	 RAL 1004	<b>M22-XAK14</b> 121088		
	Quadilingual	de, en, fr, it	 RAL 1004	<b>M22-XBK11</b> 121372		
	Quadilingual	de, en, fr, it	 RAL 1004	<b>M22-XBK11</b> 121372		
<b>Emergency switching off label</b>						
ATEX  → Engineering Lettering black						
	NOT-AUS	de	 RAL 1004	<b>M22-XZK-D99</b> 216471	  	UL/CSA certification not required
	Emergency-Stop	en	 RAL 1004	<b>M22-XZK-GB99</b> 216472		
	Arrêt d'urgence	fr	 RAL 1004	<b>M22-XZK-F99</b> 216473		
	EMERGENZA	it	 RAL 1004	<b>M22-XZK-I99</b> 216474		
	NOODSTOP	nl	 RAL 1004	<b>M22-XZK-NL99</b> 216475		
	NÖDSTOPP	sv	 RAL 1004	<b>M22-XZK-S99</b> 216476		
	HÄTÄ-SEIS	fi	 RAL 1004	<b>M22-XZK-SF99</b> 216477		
	NØDSTOP	da	 RAL 1004	<b>M22-XZK-DK99</b> 216478		
	-	de, en, fr, it	 RAL 1004	<b>M22-XYK1</b> 216484		
	-	de, en, fr, it	 RAL 1004	<b>M22-XAK1</b> 216465		
	-	de, en, es, pt	 RAL 1004	<b>M22-XAK2</b> 216466		
	-	de, en, nl, fr	 RAL 1004	<b>M22-XAK3</b> 216467		
	-	en, sv, fi, da	 RAL 1004	<b>M22-XAK4</b> 216468		
	Quadilingual	de, en, fr, it	 RAL 1004	<b>M22-XBK1</b> 216483		
	Quadilingual	de, en, fr, it	 RAL 1004	<b>M22-XBK1</b> 216483		








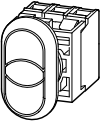

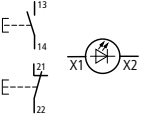




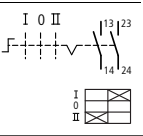

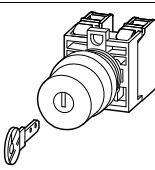


Inscription	Language	RAL value	Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America 
<b>Emergency-Stop labels</b>						
	-		RAL 1004	<b>M22-XZK-*</b> 216479	10 off 	UL/CSA certification not required
Blank	-		RAL 1004	<b>M22-XZK</b> 216470		
	With custom inscription via Labeleditor, →Engineering	-		RAL 1004	<b>M22-XYK-*</b> 231181	
	With custom inscription via Labeleditor, →Engineering	-		RAL 1004	<b>M22-XAK-*</b> 216469	
Blank	-		RAL 1004	<b>M22-XAK</b> 216464		
	With custom inscription via Labeleditor, →Engineering	-		RAL 1004	<b>M22-XBK-*</b> 231762	
Blank	-		RAL 1004	<b>M22-XBK</b> 269580		



	Colour mushroom head	RAL no.	Protection type	Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America
<b>Stop pushbuttons</b>							
ATEX  → Engineering							
	Non-illuminated, pull to release	●	RAL 9005	IP66, 69K	<b>M22S-PV</b> 225528	5 off  	Product Standards IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking UL File No. E29184 UL CCN NKCR CSA File No. 012528 CSA Class No. 3211-03 NA Certification UL Listed, CSA certified Degree of Protection UL/CSA Type 3R, 4X, 12, 13
	Non-illuminated, turn to release	●	RAL 9005	IP67, 69K	<b>M22S-PVT</b> 271499		
	Illuminated, pull to release	●	RAL 9005	IP66, 69K	<b>M22S-PVL</b> 230962		
	Illuminated, turn to release	●	RAL 9005	IP67, 69K	<b>M22S-PVLT</b> 271540		
<b>Guard-ring for Stop pushbutton</b>							
	-	-	-	IP67, 69K	<b>M22G-XGPV</b> 271610	1 off  	UL/CSA certification not required






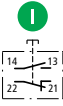

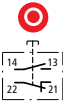


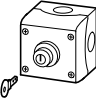
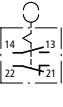

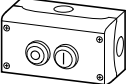
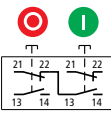

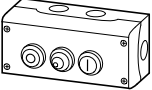
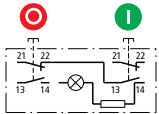

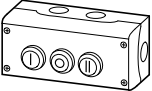
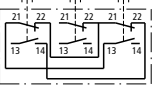


	Button plate	Contact configuration: ☉ = Safety function by positive opening according to IEC/EN 60947-5-1		Circuit Symbol	Protection type	Bezel: silver Part no. Article no.	Price See price list	Std. pack
<b>Pushbutton actuator</b>								
<b>Flat actuator</b>								
		-	1 NC ☉		IP67, IP69K	<b>M22-D-R-X0/K01</b> 216510		5 off 
		1 N/O	-		IP67, IP69K	<b>M22-D-G-X1/K10</b> 216512		5 off 
<b>Double actuator with LED element ancilliary lens white</b>								
85 - 264 V AC								
		1 N/O	1 NC ☉		IP66	<b>M22-DDL-GR-X1/X0/K11/230-W</b> 216509		5 off 
<b>Selector switch actuators</b>								
Thumb-grip, black Maintained/momentary function, can be changed with coding adapters M22-XC-Y → Engineering Switch positions 0, I and II correspond with the position of the actuator as viewed from the front. Bezel gold-plated → Page 2/48								
	2 positions, maintained	-	1 N/O	-		IP66	<b>M22-WRK/K10</b> 216518	5 off 
	3 positions, maintained	-	2 N/O	-		IP66	<b>M22-WRK3/K20</b> 216520	5 off 
<b>Key-operated button</b>								
Maintained/momentary function and key withdraw convertible with coding adapters M22-XC → Engineering 2 positions, maintained MS1 lock mechanism, with 1 key								
	-	-	1 N/O	1 NC ☉		IP66	<b>M22-WRS/K11</b> 216517	5 off 

**Information relevant for export to North America**




Product Standards	IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking
UL File No.	E29184
UL CCN	NKCR
CSA File No.	012528
CSA Class No.	3211-03
NA Certification	UL Listed, CSA certified
Degree of Protection	UL/CSA Type 3R, 4X, 12, 13



	Number of locations	Contact configuration: ⊕ = Safety function by positive opening according to IEC/EN 60947-5-1	Circuit symbol	Color enclosure top	Protection type	Bezel: silver Part no. Article no.	Price See price list	Std. pack
	Number	N/O = normally open contact	NC = normally closed contact		RAL no.			
<b>Pushbutton actuator</b>								
<b>Flush actuator</b>								
	1	1 N/O	1 NC ⊕		●	RAL 7035 IP67, IP69K	<b>M22-D-G-X1/KC11/I</b> 216522	1 off 
	1	1 N/O	1 NC ⊕		●	RAL 7035 IP67, IP69K	<b>M22-D-R-X0/KC11/I</b> 216521	1 off 
<b>Information relevant for export to North America</b>								
	Product Standards		IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking					
	UL CCN		NKCR					
	CSA File No.		012528					
	CSA Class No.		3211-03					
	NA Certification		UL Listed, CSA certified					
	Degree of Protection		UL/CSA Type 3R, 4X, 12, 13					
<b>Key-operated button</b>								
Maintained/momentary function and key withdraw convertible with coding adapters M22-XC → Engineering with 1 key 2 positions, maintained Lock mechanism MS1								
	1	1 N/O	1 NC ⊕		●	RAL 7035 IP66	<b>M22-WRS/KC11/I</b> 216526	1 off 
<b>Two-way pushbutton station</b>								
<b>Without indicator light</b>								
	2	2 N/O	2 NC ⊕		●	RAL 7035 IP67, IP69K	<b>M22-I2-M1</b> 216529	1 off 
	2	2 N/O	2 NC ⊕		●	RAL 7035 IP67, IP69K	<b>M22-I3-M2</b> 216533	1 off 
<b>Three-way pushbutton station</b>								
	3	3 N/O	3 NC ⊕		●	RAL 7035 IP67, IP69K	<b>M22-I3-M1</b> 216532	1 off 
<b>Customized complete unit</b>								
→ Engineering To order use form F0315 → Data sheet in Online Catalog * = Freely selectable customer identification or stock no.; max. 10 characters.						<b>M22-COMBINATION-*</b> 228298	1 off	
<b>Information relevant for export to North America</b>								
	Product Standards		IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking					
	UL File No.		E29184					
	UL CCN		NKCR					
	CSA File No.		012528					
	CSA Class No.		3211-03					
	NA Certification		UL Listed, CSA certified					
	Degree of Protection		UL/CSA Type 3R, 4X, 12, 13					



Construction type	Button plate	Bezel: silver		Bezel: black		Std. pack	Information relevant for export to North America
		Part no. Article no.	Price See price list	Part no. Article no.	Price See price list		
<b>Double pushbutton actuators with indicator light, IP66</b> ATEX (Ex) → Engineering White acillary lens Momentary Bezel gold-plated → Page 2/48 							
Pushbuttons and indicator lights protruding		<b>M22-DDL-GR</b> 216698		<b>M22S-DDL-GR</b> 216699		5 off 	Product Standards IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking UL File No. E29184 UL CCN NKCR CSA File No. 012528 CSA Class No. 3211-03 NA Certification UL Listed, CSA certified Degree of Protection UL/CSA Type 3R, 4X, 12, 13
		<b>M22-DDL-GR-X1/X0</b> 216700		<b>M22S-DDL-GR-X1/X0</b> 216701			
		<b>M22-DDL-GR-GB1/GB0</b> 216702		<b>M22S-DDL-GR-GB1/GB0</b> 216703			
		<b>M22-DDL-WS</b> 216704		<b>M22S-DDL-WS</b> 216705			
		<b>M22-DDL-WS-X1/X0</b> 216706		<b>M22S-DDL-WS-X1/X0</b> 216707			
		<b>M22-DDL-WS-GB1/GB0</b> 216708		<b>M22S-DDL-WS-GB1/GB0</b> 216709			
		<b>M22-DDL-S-X7/X7</b> 216710		<b>M22S-DDL-S-X7/X7</b> 216711			
		<b>M22-DDL-S-X4/X5</b> 218145		<b>M22S-DDL-S-X4/X5</b> 218146			
	With customized inscription to order via Labeleditor → Notes	<b>M22-DDL-*. *.*</b> 226770		<b>M22S-DDL-*. *.*</b> 230350			
Pushbuttons and indicator lights flat		<b>M22-DDLF-GR-X1/X0</b> 284814		<b>M22S-DDLF-GR-X1/X0</b> 284815		5 off 	Product Standards IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking NA Certification Request filed for UL and CSA Degree of Protection UL/CSA Type 3R, 4X, 12, 13
		<b>M22-DDLF-WS-X1/X0</b> 284816		<b>M22S-DDLF-WS-X1/X0</b> 284817			
	With customized inscription to order via Labeleditor → Notes	<b>M22-DDLF-*. *.*</b> 284818		<b>M22S-DDLF-*. *.*</b> 284819			
Pushbutton I and indicator light flat, pushbutton O protruding		<b>M22-DDLM-GR-X1/X0</b> 284830		<b>M22S-DDLM-GR-X1/X0</b> 284831		5 off 	
		<b>M22-DDLM-WS-X1/X0</b> 284832		<b>M22S-DDLM-WS-X1/X0</b> 284833			
	With customized inscription to order via Labeleditor → Notes	<b>M22-DDLM-*. *.*</b> 107062					

Notes

1st wildcard (\*) = Colour of button plate B = blue, G = green, R = red, B = black  
 B/S = top blue/bottom black  
 G/R = top green/bottom red  
 G/S = top green/bottom black  
 W/S = top white/bottom black.

Wildcard 2 and 3 (\*) = File name assigned by Labeleditor (enter twice), for further color combinations please enquire → Engineering



Button plate	Bezel: silver Part no. Article no.	Price See price list	Std. pack	Bezel: black Part no. Article no.	Price See price list	Std. pack	Notes		
<b>Pushbutton actuators IP67, IP69K</b>									
ATEX  → Engineering									
Bezel gold-plated → Page 2/48									
Actuator flat momentary 		<b>M22-D-S</b> 216590	10 off 	<b>M22S-D-S</b> 216591		10 off 	-		
		<b>M22-D-W</b> 216592		<b>M22S-D-W</b> 216593			-		
		<b>M22-D-R</b> 216594		<b>M22S-D-R</b> 216595			-		
		<b>M22-D-G</b> 216596		<b>M22S-D-G</b> 216597			-		
		<b>M22-D-Y</b> 216598		<b>M22S-D-Y</b> 216599			-		
		<b>M22-D-B</b> 216600		<b>M22S-D-B</b> 216601			-		
		<b>M22-D-GR</b> 132671		<b>M22S-D-GR</b> 132672			-		
	-	<b>M22-D-X</b> 216602		<b>M22S-D-X</b> 216604			-		
	-	<b>M22-D-X-GVP</b> 216603					-		
		<b>M22-D-R-X0</b> 216605		<b>M22S-D-R-X0</b> 216606			10 off 	-	
		<b>M22-D-G-X1</b> 216607		<b>M22S-D-G-X1</b> 216608				-	
		<b>M22-D-S-X0</b> 216609		<b>M22S-D-S-X0</b> 216610				-	
		<b>M22-D-W-X1</b> 216611		<b>M22S-D-W-X1</b> 216612				-	
	Actuator flat, maintained 			<b>M22-DR-S</b> 216613			5 off 	<b>M22S-DR-S</b> 216614	
		<b>M22-DR-W</b> 216615	<b>M22S-DR-W</b> 216616						
		<b>M22-DR-R</b> 216617	<b>M22S-DR-R</b> 216618						
		<b>M22-DR-G</b> 216619	<b>M22S-DR-G</b> 216620						
		<b>M22-DR-Y</b> 216621	<b>M22S-DR-Y</b> 216622						
		<b>M22-DR-B</b> 216623	<b>M22S-DR-B</b> 216624						
-		<b>M22-DR-X</b> 216625	<b>M22S-DR-X</b> 216627						
-		<b>M22-DR-X-GVP</b> 216626							
		<b>M22-DR-R-X0</b> 216628	<b>M22S-DR-R-X0</b> 216629	5 off 	-				
		<b>M22-DR-G-X1</b> 216630	<b>M22S-DR-G-X1</b> 216631		-				
		<b>M22-DR-S-X0</b> 216632	<b>M22S-DR-S-X0</b> 216633		-				
		<b>M22-DR-W-X1</b> 216634	<b>M22S-DR-W-X1</b> 216635		-				

Information relevant for export to North America



Product Standards IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking  
 UL File No. E29184  
 UL CCN NKCR  
 CSA File No. 012528  
 CSA Class No. 3211-03  
 NA Certification UL Listed, CSA certified  
 Degree of Protection UL/CSA Type 3R, 4X, 12, 13



Button plate		Bezel: silver	Price	Std. pack	Bezel: black	Price	Std. pack	Notes	
		Part no. Article no.	See price list		Part no. Article no.	See price list			
<b>Pushbutton actuators IP67, IP69K</b>									
ATEX  → Engineering									
Bezel gold-plated → Page 2/48									
Actuator extended, momentary			<b>M22-DH-S</b> 216636	5 off 		<b>M22S-DH-S</b> 216637	5 off 	-	
		<b>M22-DH-W</b> 216638				<b>M22S-DH-W</b> 216639			-
		<b>M22-DH-G</b> 216643				<b>M22S-DH-G</b> 216645			-
		<b>M22-DH-R</b> 216641				<b>M22S-DH-R</b> 216642			-
		<b>M22-DH-Y</b> 216646				<b>M22S-DH-Y</b> 216647			-
		<b>M22-DH-B</b> 216649				<b>M22S-DH-B</b> 216650			-
		<b>M22-DH-R-X0</b> 216655				<b>M22S-DH-R-X0</b> 216656			-
		<b>M22-DH-G-X1</b> 216657				<b>M22S-DH-G-X1</b> 216658			-
		<b>M22-DH-S-X0</b> 216659				<b>M22S-DH-S-X0</b> 216660			-
		<b>M22-DH-W-X1</b> 216661				<b>M22S-DH-W-X1</b> 216662			-
Actuator extended, maintained			<b>M22-DRH-S</b> 216663	5 off 		<b>M22S-DRH-S</b> 216664	5 off 	<b>Programmable maintained/momentary pushbutton function</b>  ≈ 3 mm	
		<b>M22-DRH-W</b> 216665				<b>M22S-DRH-W</b> 216666			
		<b>M22-DRH-R</b> 216667				<b>M22S-DRH-R</b> 216668			
		<b>M22-DRH-G</b> 216669				<b>M22S-DRH-G</b> 216670			
		<b>M22-DRH-Y</b> 216671				<b>M22S-DRH-Y</b> 216672			
		<b>M22-DRH-B</b> 216673				<b>M22S-DRH-B</b> 216674			
		<b>M22-DRH-R-X0</b> 216675				<b>M22S-DRH-R-X0</b> 216676			
		<b>M22-DRH-G-X1</b> 216677				<b>M22S-DRH-G-X1</b> 216678			
		<b>M22-DRH-S-X0</b> 216679				<b>M22S-DRH-S-X0</b> 216680			
		<b>M22-DRH-W-X1</b> 216681				<b>M22S-DRH-W-X1</b> 216682			
<b>Pushbuttons with guard ring, momentary, IP66, IP69K</b>									
ATEX  → Engineering									
Bezel gold-plated → Page 2/48									
		<b>M22-DG-X</b> 220921		5 off 				-	

**Information relevant for export to North America**



Product Standards	IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking
UL File No.	E29184
UL CCN	NKCR
CSA File No.	012528
CSA Class No.	3211-03
NA Certification	UL Listed, CSA certified
Degree of Protection	UL/CSA Type 3R, 4X, 12, 13





Button plate	Colour of mushroom head	Bezel: silver			Std. pack	Bezel: black			Notes			
		Part no. Article no.	Price See price list			Part no. Article no.	Price See price list					
<b>Mushroom-headed pushbuttons, IP67, IP69K</b>												
ATEX  → Engineering												
Bezel gold-plated → Page 2/48												
<b>Momentary</b>												
			<b>M22-DP-S</b> 216712		5 off 	<b>M22S-DP-S</b> 216713		5 off 	–			
			<b>M22-DP-R</b> 216714			<b>M22S-DP-R</b> 216715			–			
			<b>M22-DP-G</b> 216716			<b>M22S-DP-G</b> 216717			–			
			<b>M22-DP-Y</b> 216718			<b>M22S-DP-Y</b> 216719			–			
			<b>M22-DP-R-X0</b> 216720			<b>M22S-DP-R-X0</b> 216721			–			
			<b>M22-DP-G-X1</b> 216722			<b>M22S-DP-G-X1</b> 216723			–			
			<b>M22-DP-S-X0</b> 216724			<b>M22S-DP-S-X0</b> 216725			–			
			<b>M22-DP-W-X1</b> 216726			<b>M22S-DP-W-X1</b> 216727			–			
	–		<b>M22-DP-S-X</b> 216728			<b>M22S-DP-S-X</b> 216730			–			
	–		<b>M22-DP-R-X</b> 216731			<b>M22S-DP-R-X</b> 216733			–			
	–		<b>M22-DP-G-X</b> 216734			<b>M22S-DP-G-X</b> 216736			–			
	–		<b>M22-DP-Y-X</b> 216737			<b>M22S-DP-Y-X</b> 216739			–			
	<b>Maintained</b>											
				<b>M22-DRP-S</b> 216743			5 off 		<b>M22S-DRP-S</b> 216744		5 off 	<b>Programmable maintained/momentary pushbutton function</b>  3 mm O I O I M22-DR... M22-D...
			<b>M22-DRP-R</b> 216745		<b>M22S-DRP-R</b> 216746							
			<b>M22-DRP-G</b> 216747		<b>M22S-DRP-G</b> 216748							
			<b>M22-DRP-Y</b> 216749		<b>M22S-DRP-Y</b> 216750							
			<b>M22-DRP-R-X0</b> 216751		<b>M22S-DRP-R-X0</b> 216752							
			<b>M22-DRP-G-X1</b> 216753		<b>M22S-DRP-G-X1</b> 216754							
			<b>M22-DRP-S-X0</b> 216755		<b>M22S-DRP-S-X0</b> 216756							
			<b>M22-DRP-W-X1</b> 216757		<b>M22S-DRP-W-X1</b> 216758							
–			<b>M22-DRP-S-X</b> 216759		<b>M22S-DRP-S-X</b> 216761							
–			<b>M22-DRP-R-X</b> 216762		<b>M22S-DRP-R-X</b> 216764							
–			<b>M22-DRP-G-X</b> 216765		<b>M22S-DRP-G-X</b> 216767							
–			<b>M22-DRP-Y-X</b> 216768		<b>M22S-DRP-Y-X</b> 216770							

Information relevant for export to North America



Product Standards IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking  
 UL File No. E29184  
 UL CCN NKCR  
 CSA File No. 012528  
 CSA Class No. 3211-03  
 NA Certification UL Listed, CSA certified  
 Degree of Protection UL/CSA Type 3R, 4X, 12, 13



Function:  
 ▷ = Momentary  
 ▽ = Maintained

Button plate

Inscription

Function

Bezel: Silver  
 Part no.  
 Article no.

Price  
 See price list

Std. pack

Bezel: black  
 Part no.  
 Article no.

Price  
 See price list

Std. pack

**Selector switch actuators, IP66**

ATEX (Ex) → Engineering; Bezel gold-plated → Page 2/48  
 Maintained/momentary, can be changed with coding adapter kit → Page 2/23  
 Two positions

**With rotary knob**



▷ 40°		-	-	-
▽ 60°		-	-	-
▽ 60°		-	-	-
▽ 60°	-	-	AUTO HAND	-
▽ 60°	-	-	* = with customized inscription through Labeleditor → Engineering	-

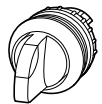
<b>M22-W</b> 216853	5 off
<b>M22-WR</b> 216855	
<b>M22-WR-X92</b> 216857	
<b>M22-WR-X91</b> 216859	
<b>M22-WR-*</b> 226836	

5 off

<b>M22S-W</b> 216854	
<b>M22S-WR</b> 216856	
<b>M22S-WR-X92</b> 216858	
<b>M22S-WR-X91</b> 216860	
<b>M22S-WR-*</b> 226837	

5 off

**With thumb-grip**



▷ 40°	-	-	-	-
▽ 60°	-	-	-	-
▽ 60°	-	-	-	-

<b>M22-WK</b> 216865	5 off
<b>M22-WRK</b> 216867	10 off
<b>M22-WRK-GVP</b> 216868	50 off

5 off  
10 off  
50 off

<b>M22S-WK</b> 216866	
<b>M22S-WRK</b> 216869	

5 off  
10 off  
off

**With thumb-grip, V position**



▽ 60°	-	-	-	-
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<b>M22-WKV</b> 216874	5 off
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5 off

<b>M22S-WKV</b> 216875	
---------------------------	--

5 off

**3 positions (with plunger bridge → engineering)**

**With rotary knob**



40° ↓ 40°		-	-	-
60° ↓ 60°		-	-	-
60° ↓ 60°		-	AUTO 0 MAN.	-
60° ↓ 60°		-	* = with customized inscription through Labeleditor → Engineering	-

<b>M22-W3</b> 216861	5 off
<b>M22-WR3</b> 216863	
<b>M22-WR3-X94</b> 226838	
<b>M22-WR3-*</b> 226840	

5 off

<b>M22S-W3</b> 216862	
<b>M22S-WR3</b> 216864	
<b>M22S-WR3-X94</b> 226839	
<b>M22S-WR3-*</b> 226841	

5 off

**With thumb-grip**



40° ↓ 40°	-	-	-	-
60° ↓ 60°	-	-	-	-
-	-	-	-	-

<b>M22-WK3</b> 216870	5 off
<b>M22-WRK3</b> 216872	
<b>M22-WRK3-*1)</b> 217436	

5 off

<b>M22S-WK3</b> 216871	
<b>M22S-WRK3</b> 216873	
<b>M22S-WRK3-*1)</b> 217437	

5 off

**4 positions**

Not suitable for coding adapters  
 Use fixing adapter M22-A4 → Page 2/31, labels → Page 2/25

**With rotary knob**



45°		-	-	-
-----	--	---	---	---



<b>M22-WR4</b> 279419	5 off
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5 off

<b>M22S-WR4</b> 279430	
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5 off

**With thumb-grip**



45°		-	-	-
-----	--	---	---	---



<b>M22-WRK4</b> 279431	5 off
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5 off

<b>M22S-WRK4</b> 279432	
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5 off


**Notes**

1) The \* wildcard can represent values 1 or 2:  
 \* = 1: for 60°  
 \* = 2: for 40°

**Information relevant for export to North America**

	Product Standards	IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking
	UL File No.	E29184
	UL CCN	NKCR
	CSA File No.	012528
	CSA Class No.	3211-03
	NA Certification	UL Listed, CSA certified
	Degree of Protection	UL/CSA Type 3R, 4X, 12, 13






Function:		Key withdrawable in position		Bezel: Silver	Price See price list	Std. pack	Bezel: black	Price See price list	Std. pack
▷ = Momentary ▽ = Maintained				Part no. Article no.			Part no. Article no.		
<b>Key-operated buttons for individual lock mechanisms, IP66.</b> ATEX (Ex) → Engineering Bezel gold-plated → Page 2/48 Not suitable for master key systems With 1 key Convertible maintained/momentary function and key withdraw → Page 2/23 									
<b>Two positions</b>									
Lock mechanism MS1	▷ 40°	–	0	–	<b>M22-WS</b> 216881	1 off 	<b>M22S-WS</b> 216882		1 off 
	▽ 60°	–	0	I	<b>M22-WRS</b> 216887	5 off 	<b>M22S-WRS</b> 216889		5 off 
	▽ 60°	–	0	I	<b>M22-WRS-GVP</b> 216888	25 off 			
	▽ 60°	–	0	–	<b>M22-WRS-A1</b> 229092	5 off 	<b>M22S-WRS-A1</b> 229093		5 off 
Lock mechanism MS2 – MS20 (Lock mechanism number in the type designation)	▷ 40°	–	0	–	<b>M22-WS-MS*1)</b> 216883	1 off 	<b>M22S-WS-MS*1)</b> 216884		1 off 
	▽ 60°	–	0	I	<b>M22-WRS-MS*1)</b> 216890	1 off 	<b>M22S-WRS-MS*1)</b> 216891		1 off 
	▽ 50°	–	0	–	<b>M22-WRS-MS*-A1<sup>1)</sup></b> 217440	5 off 	<b>M22S-WRS-MS*-A1<sup>1)</sup></b> 217441		5 off 
<b>3 positions (with plunger bridge → Engineering)</b>									
Lock mechanism MS1	40° ↙↘ 40°	–	0	–	<b>M22-WS3</b> 216894	1 off 	<b>M22S-WS3</b> 216895		1 off 
	60° ↙↘ 60°	I	0	II	<b>M22-WRS3</b> 216900	5 off 	<b>M22S-WRS3</b> 216901		5 off 
	60° ↙↘ 60°	I	0	II	<b>M22-WRS3-GVP</b> 216902	25 off 			
	↙↘	Selectable <sup>2)</sup>	–	–	<b>M22-WRS3-A*1<sup>4)</sup></b> 229094	5 off 	<b>M22S-WRS3-A*1<sup>4)</sup></b> 229095		5 off 
Lock mechanism MS1 – MS20 (Lock mechanism number in the type designation)	Selectable	Selectable <sup>2)</sup>	–	–	<b>M22-WRS3-MS*-A*1<sup>2)</sup></b> 217442	5 off 	<b>M22S-WRS3-MS*-A*1<sup>2)</sup></b> 217443		5 off 
	40° ↙↘ 40°	–	0	–	<b>M22-WS3-MS*1)</b> 216896	1 off 	<b>M22S-WS3-MS*1)</b> 216897		1 off 
	60° ↙↘ 60°	I	0	II	<b>M22-WRS3-MS*1)</b> 216903	1 off 	<b>M22S-WRS3-MS*1)</b> 216904		1 off 
<b>2 or 3 positions</b>									
Lock mechanism MS1 – MS20 (Lock mechanism number in the type designation)	Selectable	Selectable	–	–	<b>M22-WRS*-MS*-.*1<sup>3)</sup></b> 262521	1 off 			

**Information relevant for export to North America**



Product Standards IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking  
 UL File No. E29184  
 UL CCN NKCR  
 CSA File No. 012528  
 CSA Class No. 3211-03  
 NA Certification UL Listed, CSA certified  
 Degree of Protection UL/CSA Type 3R, 4X, 12, 13




Function:	Key withdrawable in position	Bezel: Silver Part no. Article no.	Price See price list	Std. pack	Bezel: black Part no. Article no.	Price See price list	Std. pack
> = Momentary > = Maintained							
<b>Individual keys</b>							
Replacement key for keyswitch AUTO - OFF/RESET - MANUAL							
							
For lock mechanism MS1		<b>M22-ES-MS1</b> 216416		5 off 			
For lock mechanism MS2 – MS20		<b>M22-ES-MS*</b> 216417		1 off 			

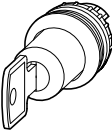


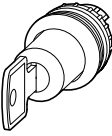
**Notes**

- 1) Delivery: 4 weeks from receipt of order by the factory
- 2) Example: M22(S)-WRS3-MS\*-A\*
- MS\*: \* = MS1- MS20 (number of individual lock mechanisms)
- A\*: \* = 1, function >>, withdrawable in switch position 0
- \* = 2, function >>, withdrawable in switch position I, 0
- \* = 3, function >>, withdrawable in switch position 0, II
- \* = 4, function >>, withdrawable in switch position I, 0
- \* = 5, function >>, withdrawable in switch position 0
- \* = 6, function >>, withdrawable in switch position 0, II
- \* = 7, function >>, withdrawable in switch position 0
- \* = 10, function >>, withdrawable in switch position I, II
- 3) Example: M22(S)-WRS\*-MS\*-\*
- WRS\*: \* = 2 or 3 positions (function and key withdrawability as M22-WRS or M22-WRS3)
- MS\*: \* = MS1- MS20 (number of individual lock mechanism)
- \*: \* = Customized inscription using Labeleditor; For \* enter the automatically generated file name (→ Engineering) or "blank" if no inscription required
- 4) Version A10 can not be selected.

**Information relevant for export to North America**

  
UL/CSA certification not required



Function:		Key with-drawable in position	Bezel: Silver		Std. pack	Bezel: black		Std. pack
			Part no. Article no.	Price See price list		Part no. Article no.	Price See price list	
> = Momentary ↓ = Maintained								
<b>Key-operated button actuators for master key systems IP66</b>								
ATEX (Ex) → Engineering Bezel gold-plated → Page 2/48 With two keys								
Two positions 	> 40°	0	M22-WS-SA(*)-* 216885		5 off 	M22S-WS-SA(*)-* 216886		5 off 
	↓ 60°	0	M22-WRS-SA(*)-* 216892			M22S-WRS-SA(*)-* 216893		
	60° ↓	0 1	M22-WRS-SA(*)-* -A8 285537			M22S-WRS-SA(*)-* -A8 285538		
3 positions 	60° ↓ 60°	1 0 11	M22-WRS3-SA(*)-* -A9 285539			M22S-WRS3-SA(*)-* -A9 285581		
	40° <↓> 40°	0	M22-WS3-SA(*)-* 216898			M22S-WS3-SA(*)-* 216899		
	60° ↓ 60°	0	M22-WRS3-SA(*)-* 216905			M22S-WRS3-SA(*)-* 216906		

Information relevant for export to North America



Product Standards IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking  
 UL File No. E29184  
 UL CCN NKCR  
 CSA File No. 012528  
 CSA Class No. 3211-03  
 NA Certification UL Listed, CSA certified  
 Degree of Protection UL/CSA Type 3R, 4X, 12, 13

Individual key for master key systems

ATEX (Ex) → Engineering



0

M22-ES-SA(\*)-\*  
217444

10 off




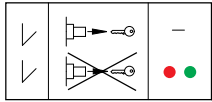


Notes

Master key systems: Delivery time 4 to 6 weeks after receipt of order  
 To order use form F0276 → Data sheet in Online Catalog

Information relevant for export to North America



UL/CSA certification not required

Function		Part no. Article no.	Price See price list	Std. pack
<b>Coding kit</b>				
Not for key-operated button for master key systems				
To change key withdraw functionality → Engineering 		50° M22-XC-R 216406		10 off 
	To change maintained/momentary functionality → Engineering 			














Information relevant for export to North America



UL/CSA certification not required












Inscription	Function:	For use with	Bezel: Silver			Bezel: black		
			Part no. Article no.	Price See price list	Std. pack	Part no. Article no.	Price See price list	Std. pack
<b>Joystick, IP66</b>								
ATEX (Ex) → Engineering								
Bezel gold-plated → Page 2/48, use adapter M22-A4								
→ Page 1/11 With one operating point per operating direction								
	2 positions		-	<b>M22-WJ2H</b> 289195		1 off 	<b>M22S-WJ2H</b> 289197	1 off 
			-	<b>M22-WRJ2H</b> 289199			<b>M22S-WRJ2H</b> 289241	
			-	<b>M22-WJ2V</b> 289196			<b>M22S-WJ2V</b> 289198	
			-	<b>M22-WRJ2V</b> 289240			<b>M22S-WRJ2V</b> 289242	
	4 positions		-	<b>M22-WRJ4</b> 279415		5 off 	<b>M22S-WRJ4</b> 279416	5 off 
	4 positions		-	<b>M22-WJ4</b> 279417		5 off 	<b>M22S-WJ4</b> 279418	5 off 

**Information relevant for export to North America**



Product Standards IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91;  
CE marking  
UL File No. E29184  
UL CCN NKCR  
CSA File No. 012528  
CSA Class No. 3211-03  
NA Certification UL Listed, CSA certified  
Degree of Protection UL/CSA Type 3R, 4X, 12, 13

With two operating points per operating direction  
These joysticks are combined with normal normally open contacts M22-K10 and normally open contacts M22-K10P.

	2 positions		-	<b>M22-WJ2H-2P</b> 111508		1 off 		
	2 positions		-	<b>M22-WJ2V-2P</b> 111507		1 off 		
	4 positions		-	<b>M22-WJ4-2P</b> 110836		1 off 		








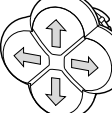






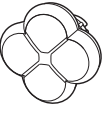



**Information relevant for export to North America**



NA Certification Request filed for UL and CSA

**Pushbuttons, IP66, 4-way**

ATEX (Ex) → Engineering

	Pushbuttons not mechanically interlocked	No inscription, push-button color black		-	<b>M22-D4-S</b> 279411	5 off 	<b>M22S-D4-S</b> 279412	5 off 
		Custom pushbutton color and inscription, → Notes		-	<b>M22-D4-*.*</b> 279413	5 off 	<b>M22S-D4-*.*</b> 279414	5 off 
	Arrows white, push-button color black			-	<b>M22-D4-S-X7</b> 286336	5 off 	<b>M22S-D4-S-X7</b> 286337	5 off 
	Opposite pushbutton mechanically interlocked	Arrows white, push-button color black		-	<b>M22-D14-S-X7</b> 286338	5 off 	<b>M22S-D14-S-X7</b> 286339	5 off 
	Custom pushbutton color and inscription, → Notes			-	<b>M22-D14-*.*</b> 286340	5 off 	<b>M22S-D14-*.*</b> 286341	5 off 

**Notes**

-.\*. : \* B = blue, G = green, R = red, B = black, W = white, Y = yellow  
State colors clockwise, starting at 12:00 o'clock



-.\*. : \* = File name generated by Labeleditor  
→ Engineering

**Information relevant for export to North America**



Product Standards IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91;  
CE marking  
UL File No. E29184  
UL CCN NKCR  
CSA File No. 012528  
CSA Class No. 3211-03  
NA Certification UL Listed, CSA certified  
Degree of Protection UL/CSA Type 3R, 4X, 12, 13

HPL02025EN



Inscription	For use with	Bezel: Silver Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America 
<b>Labels</b>					
	No inscription	Joystick 4-way selector switch actuators	<b>M22-XCK</b> 279433	10 off 	UL/CSA certification not required
	4 direction arrows	Joystick 4-way selector switch actuators	<b>M22-XCK1</b> 279434		
	2 direction arrows, can be turned through 90°	Joystick 2 positions	<b>M22-XCK3</b> 290260		
	0-1-0-2-0-3-0-4	4-way selector switch actuators	<b>M22-XCK2</b> 279435		
	With customized inscription to order via Labeleditor → Engineering	Joystick 4-way selector switch actuators	<b>M22-XCK-*</b> 279436		

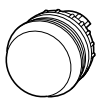

































**Notes**

-\*.\*: \* B = blue, G = green, R = red, B = black, W = white, Y = yellow  
State colors clockwise, starting at 12:00 o'clock,



-\*.\*: \* = File name generated by Labeleditor  
→ Engineering



Color	Construction	Protection	Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America	
<b>Indicator lights</b>							
LEDs for indicator lights → Page 2/33 and following							
		White	Flat	IP67, IP69K	<b>M22-L-W</b> 216771	10 off 	Product Standards IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking UL File No. E29184 UL CCN NKCR CSA File No. 012528 CSA Class No. 3211-03 NA Certification UL Listed, CSA certified Degree of Protection UL/CSA Type 3R, 4X, 12, 13
		Red	Flat	IP67, IP69K	<b>M22-L-R</b> 216772		
		Green	Flat	IP67, IP69K	<b>M22-L-G</b> 216773		
		Yellow	Flat	IP67, IP69K	<b>M22-L-Y</b> 216774		
		Blue	Flat	IP67, IP69K	<b>M22-L-B</b> 216775		
	—	Without lens <sup>1)</sup>	Flat	IP67, IP69K	<b>M22-L-X</b> 216776		
	—	Without lens <sup>1)</sup>	Flat	IP67, IP69K	<b>M22-L-X-GVP</b> 216777		
		White	Extended, conical	IP67, IP69K	<b>M22-LH-W</b> 216778	10 off 	
		Red	Extended, conical	IP67, IP69K	<b>M22-LH-R</b> 216779		
		Green	Extended, conical	IP67, IP69K	<b>M22-LH-G</b> 216780		
		Yellow	Extended, conical	IP67, IP69K	<b>M22-LH-Y</b> 216781		
		Blue	Extended, conical	IP67, IP69K	<b>M22-LH-B</b> 216782		
<b>Indicator lights conical, BA 9s</b>							
can be fitted in M20/M25 knockout in base For filament and neon bulbs up to 2.4 W							
		Red	Conical	IP67, IP69K	<b>L-R</b> 208689	1 off 	NA Certification Request filed for UL and CSA Degree of Protection UL/CSA Type 3R, 4X, 12, 13
		Green	Conical	IP67, IP69K	<b>L-G</b> 208690		
		Yellow	Conical	IP67, IP69K	<b>L-Y</b> 208691		
		White	Conical	IP67, IP69K	<b>L-W</b> 208692		
<b>Compact indicator lights</b>							
Without light elements For filament bulbs, neon bulbs and LEDs up to 2.4 W with BA 9s lamp socket							
		White	Flat	IP67, IP69K	<b>M22-LC-W</b> 216907	10 off 	Product Standards IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CE marking UL File No. E29184 UL CCN NKCR CSA File No. 012528 CSA Class No. 3211-03 NA Certification UL Listed, CSA certified Degree of Protection UL/CSA Type 3R, 4X, 12, 13
		Red	Flat	IP67, IP69K	<b>M22-LC-R</b> 216908		
		Green	Flat	IP67, IP69K	<b>M22-LC-G</b> 216909		
		Yellow	Flat	IP67, IP69K	<b>M22-LC-Y</b> 216910		
		Blue	Flat	IP67, IP69K	<b>M22-LC-B</b> 216911		
	—	Without lens <sup>1)</sup>	Flat	IP67, IP69K	<b>M22-LC-X</b> 216912		
	—	Without lens <sup>1)</sup>	Flat	IP67, IP69K	<b>M22-LC-X</b> 216912		
		White	Extended, conical	IP67, IP69K	<b>M22-LCH-W</b> 216914	10 off 	
		Red	Extended, conical	IP67, IP69K	<b>M22-LCH-R</b> 216915		
		Green	Extended, conical	IP67, IP69K	<b>M22-LCH-G</b> 216916		
		Yellow	Extended, conical	IP67, IP69K	<b>M22-LCH-Y</b> 216917		
		Blue	Extended, conical	IP67, IP69K	<b>M22-LCH-B</b> 216918		

Notes

<sup>1)</sup> Lenses for indicator lights → Page 2/40

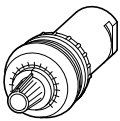


Circuit Symbol	Resistance	Bezel: Silver		Std. pack	Bezel: black		Std. pack
		Part no. Article no.	Price See price list		Part no. Article no.	Price See price list	
 1 4.7 10 47 100 470 Selectable + Notes <sup>1)</sup> Selectable + Notes <sup>1)</sup>	1	M22-R1K <sup>(2)</sup> 229489		1 off 	M22S-R1K <sup>(2)</sup> 232231	1 off 	
	4.7	M22-R4K7 <sup>(2)</sup> 229490			M22S-R4K7 <sup>(2)</sup> 232232		
	10	M22-R10K <sup>(3)</sup> 229491			M22S-R10K <sup>(3)</sup> 232233		
	47	M22-R47K <sup>(2)</sup> 229492			M22S-R47K <sup>(2)</sup> 232234		
	100	M22-R100K <sup>(2)</sup> 229493			M22S-R100K <sup>(2)</sup> 232235		
	470	M22-R470K <sup>(2)</sup> 229494			M22S-R470K <sup>(2)</sup> 232236		
	Selectable + Notes <sup>1)</sup>	M22-R*.* <sup>(2)</sup> 263371			M22S-R*.* <sup>(2)</sup> 263372		
	Selectable + Notes <sup>1)</sup>	M22-R*.*-RH <sup>(2)</sup> 288863					

Potentiometer, IP66



→ Engineering Bezel gold-plated → Page 2/48  
Three separate screw connections, P<sub>max</sub> = 0.5 W  
Accuracy of resistance value: ± 10% (linear)  
M22...RH with large operating head



Notes

<sup>1)</sup> When ordering, the type reference must include the following details:  
First wildcard Δ Resistance  
2nd wildcard Δ Standard scale/inscription  
\* - \*: \* = Available resistance value:  
1K = 1 kΩ  
2K2 = 2.2 kΩ  
4K7 = 4.7 kΩ  
10K = 10 kΩ  
22K = 22 kΩ  
47K = 47 kΩ  
100K = 100 kΩ  
470K = 470 kΩ  
1M = 1 MΩ  
\* - \*: \* = Standard scale/inscription: X1000  
No scale/label: „blank“

Information relevant for export to North America



























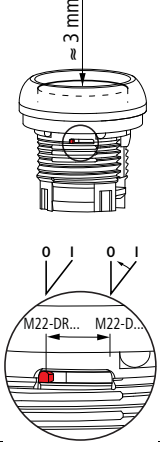






























<sup>2)</sup> Product Standards IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking  
UL File No. E29184  
UL CCN NKCR  
CSA File No. 012528  
CSA Class No. 3211-03  
NA Certification UL Listed, CSA certified  
Degree of Protection UL/CSA Type 3R, 4X, 12, 13  
<sup>3)</sup> Product Standards IEC/EN 60947-5-1; UL 508; CSA-22.2 No. 14-05; CE marking  
UL File No. E29184  
UL CCN NKCR  
CSA File No. 012528  
CSA Class No. 3211-03  
NA Certification UL Listed, CSA certified  
Degree of Protection IEC: IP 66; UL/CSA Type: 3R, 4X, 12, 13

	Bezel: Silver		Std. pack	Bezel: black		Std. pack	Information relevant for export to North America 
	Part no. Article no.	Price See price list		Part no. Article no.	Price See price list		
<p><b>Compact acoustic device, IP40</b></p> Front black, without buzzer, BA 9s lamp socket	M22-AMC 229015		1 off 			Product Standards IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking UL File No. E29184 UL CCN NKCR CSA File No. 012528 CSA Class No. 3211-03 NA Certification UL Listed, CSA certified Degree of Protection UL/CSA Type 3R, 4X, 12, 13	
<p><b>Buzzer for acoustic device</b></p> for BA 9s base 83 dB/10 cm, 18 - 30 mA, positive pole at X1, f = 2300 Hz	Continuous tone, 18 - 30 V AC/DC Pulsed tone, 24 V DC (+10 %/-15 %)	M22-XAM 229025	1 off 	M22-XAMP 229028	1 off 	Product Standards IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CE marking UL File No. E29184 UL CCN NKCR CSA File No. 012528 CSA Class No. 3211-03 NA Certification UL Listed, CSA certified	





	Color Button plate	Bezel: Silver Part no. Article no.	Price See price list	Std. pack	Bezel: black Part no. Article no.	Price See price list	Std. pack	Notes	
<b>Illuminated pushbutton actuators, IP67, IP69K</b>									
ATEX  → Engineering									
Bezel gold-plated → Page 2/48 Flat Momentary 		<b>M22-DL-W</b> 216922		10 off  	<b>M22S-DL-W</b> 216924		10 off  	–	
		<b>M22-DL-R</b> 216925			<b>M22S-DL-R</b> 216926				
		<b>M22-DL-G</b> 216927			<b>M22S-DL-G</b> 216928				
		<b>M22-DL-Y</b> 216929			<b>M22S-DL-Y</b> 216930				
		<b>M22-DL-B</b> 216931			<b>M22S-DL-B</b> 216932				
	–	<b>M22-DL-X</b> 216933			<b>M22S-DL-X</b> 216935				
	–	<b>M22-DL-X-GVP</b> 216934		50 off  					
		<b>M22-DL-R-X0</b> 216936		10 off  	<b>M22S-DL-R-X0</b> 216937		10 off  		
		<b>M22-DL-G-X1</b> 216938			<b>M22S-DL-G-X1</b> 216939				
		<b>M22-DL-W-X0</b> 216940			<b>M22S-DL-W-X0</b> 216941				
		<b>M22-DL-W-X1</b> 216942			<b>M22S-DL-W-X1</b> 216943				
	Bezel gold-plated → Page 2/48 Flat Maintained 		<b>M22-DRL-W</b> 216944		5 off  	<b>M22S-DRL-W</b> 216945		5 off  	<b>Programmable maintained/momentary pushbutton function</b>  
			<b>M22-DRL-R</b> 216946			<b>M22S-DRL-R</b> 216947			
		<b>M22-DRL-G</b> 216948			<b>M22S-DRL-G</b> 216949				
		<b>M22-DRL-Y</b> 216950			<b>M22S-DRL-Y</b> 216951				
		<b>M22-DRL-B</b> 216952			<b>M22S-DRL-B</b> 216953				
–		<b>M22-DRL-X</b> 216954			<b>M22S-DRL-X</b> 216956				
–		<b>M22-DRL-X-GVP</b> 216955		50 off  					
		<b>M22-DRL-R-X0</b> 216957		5 off  	<b>M22S-DRL-R-X0</b> 216958		5 off  		
		<b>M22-DRL-G-X1</b> 216959			<b>M22S-DRL-G-X1</b> 216960				
		<b>M22-DRL-W-X0</b> 216961			<b>M22S-DRL-W-X0</b> 216962				
		<b>M22-DRL-W-X1</b> 216963			<b>M22S-DRL-W-X1</b> 216964				
Bezel gold-plated → Page 2/48 Extended Momentary 			<b>M22-DLH-W</b> 216965		5 off  	<b>M22S-DLH-W</b> 216966		5 off  	
			<b>M22-DLH-R</b> 216967			<b>M22S-DLH-R</b> 216968			
		<b>M22-DLH-G</b> 216969			<b>M22S-DLH-G</b> 216970				
		<b>M22-DLH-Y</b> 216971			<b>M22S-DLH-Y</b> 216972				
		<b>M22-DLH-B</b> 216973			<b>M22S-DLH-B</b> 216974				
		<b>M22-DLH-R-X0</b> 216975			<b>M22S-DLH-R-X0</b> 216976				
		<b>M22-DLH-G-X1</b> 216977			<b>M22S-DLH-G-X1</b> 216978				
		<b>M22-DLH-W-X0</b> 216979			<b>M22S-DLH-W-X0</b> 216980				
		<b>M22-DLH-W-X1</b> 216981			<b>M22S-DLH-W-X1</b> 216982				








Color Button plate	Bezel: Silver		Std. pack	Bezel: black		Std. pack	Notes			
	Part no. Article no.	Price See price list		Part no. Article no.	Price See price list					
ATEX  → Engineering										
Bezel gold-plated → Page 2/48 Extended Maintained 		<b>M22-DRLH-W</b> 216788	5 off 	<b>M22S-DRLH-W</b> 216791	5 off 	<b>Programmable maintained/momentary pushbutton function</b> 				
		<b>M22-DRLH-R</b> 216789		<b>M22S-DRLH-R</b> 216792						
		<b>M22-DRLH-G</b> 216796		<b>M22S-DRLH-G</b> 216798						
		<b>M22-DRLH-Y</b> 216799		<b>M22S-DRLH-Y</b> 216801						
		<b>M22-DRLH-B</b> 216802		<b>M22S-DRLH-B</b> 216803						
		<b>M22-DRLH-R-X0</b> 216804		<b>M22S-DRLH-R-X0</b> 216808						
		<b>M22-DRLH-G-X1</b> 216805		<b>M22S-DRLH-G-X1</b> 216809						
		<b>M22-DRLH-W-X0</b> 216806		<b>M22S-DRLH-W-X0</b> 216810						
		<b>M22-DRLH-W-X1</b> 216807		<b>M22S-DRLH-W-X1</b> 216811						
	Bezel gold-plated → Page 2/48 with guardring Momentary 	-		<b>M22-DGL-X</b> 230961			5 off 			

Information relevant for export to North America



Product Standards	IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking
UL File No.	E29184
UL CCN	NKCR
CSA File No.	012528
CSA Class No.	3211-03
NA Certification	UL Listed, CSA certified
Degree of Protection	UL/CSA Type 3R, 4X, 12, 13



Function:		Color	Bezel: Silver	Price	Std. pack	Bezel: black	Price	Std. pack
▷ = Momentary ∨ = Maintained			Part no. Article no.	See price list		Part no. Article no.	See price list	
<b>Illuminated selector switch actuators, thumb-grip, IP66</b>								
ATEX (Ex) → Engineering								
Bezel gold-plated → Page 2/48								
Maintained/momentary function, can be changed with coding adapter M22-XC-Y → Engineering								
Momentary 	▷ 40°	○ White	<b>M22-WLK-W</b> 216812		5 off 	<b>M22S-WLK-W</b> 216813		5 off 
	▷ 40°	● Red	<b>M22-WLK-R</b> 216814			<b>M22S-WLK-R</b> 216815		
	▷ 40°	● Green	<b>M22-WLK-G</b> 216816			<b>M22S-WLK-G</b> 216817		
	▷ 40°	● Yellow	<b>M22-WLK-Y</b> 216818			<b>M22S-WLK-Y</b> 216819		
	▷ 40°	● Blue	<b>M22-WLK-B</b> 216820			<b>M22S-WLK-B</b> 216821		
Maintained 	∨ 60°	○ White	<b>M22-WRLK-W</b> 216823			<b>M22S-WRLK-W</b> 216824		
	∨ 60°	● Red	<b>M22-WRLK-R</b> 216825			<b>M22S-WRLK-R</b> 216826		
	∨ 60°	● Green	<b>M22-WRLK-G</b> 216827			<b>M22S-WRLK-G</b> 216828		
	∨ 60°	● Yellow	<b>M22-WRLK-Y</b> 216829			<b>M22S-WRLK-Y</b> 216830		
	∨ 60°	● Blue	<b>M22-WRLK-B</b> 216831			<b>M22S-WRLK-B</b> 216832		
<b>3 positions</b>								
Momentary 	40° ↕ 40°	○ White	<b>M22-WLK3-W</b> 216833		5 off 	<b>M22S-WLK3-W</b> 216834		5 off 
	40° ↕ 40°	● Red	<b>M22-WLK3-R</b> 216835			<b>M22S-WLK3-R</b> 216836		
	40° ↕ 40°	● Green	<b>M22-WLK3-G</b> 216837			<b>M22S-WLK3-G</b> 216838		
	40° ↕ 40°	● Yellow	<b>M22-WLK3-Y</b> 216839			<b>M22S-WLK3-Y</b> 216840		
	40° ↕ 40°	● Blue	<b>M22-WLK3-B</b> 216841			<b>M22S-WLK3-B</b> 216842		
Maintained 	60° ∨ 60°	○ White	<b>M22-WRLK3-W</b> 216843			<b>M22S-WRLK3-W</b> 216844		
	60° ∨ 60°	● Red	<b>M22-WRLK3-R</b> 216845			<b>M22S-WRLK3-R</b> 216846		
	60° ∨ 60°	● Green	<b>M22-WRLK3-G</b> 216847			<b>M22S-WRLK3-G</b> 216848		
	60° ∨ 60°	● Yellow	<b>M22-WRLK3-Y</b> 216849			<b>M22S-WRLK3-Y</b> 216850		
	60° ∨ 60°	● Blue	<b>M22-WRLK3-B</b> 216851			<b>M22S-WRLK3-B</b> 216852		
Selectable	Selectable → Notes		<b>M22-WRLK3-*/*</b> 217438			<b>M22S-WRLK3-*/*</b> 217439		
<b>V position</b>								
	∨ 60°	○ White	<b>M22-WLKV-W</b> 284393		5 off 	<b>M22S-WLKV-W</b> 284398		5 off 
	∨ 60°	● Red	<b>M22-WLKV-R</b> 284394			<b>M22S-WLKV-R</b> 284399		
	∨ 60°	● Green	<b>M22-WLKV-G</b> 284395			<b>M22S-WLKV-G</b> 284540		
	∨ 60°	● Yellow	<b>M22-WLKV-Y</b> 284396			<b>M22S-WLKV-Y</b> 284543		
	∨ 60°	● Blue	<b>M22-WLKV-B</b> 284397			<b>M22S-WLKV-B</b> 284544		

**Notes**


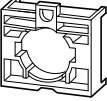
Example: M22-WRLK3-\*/\*  
 \*/\*: \*= 1 for ∨ or 2 for ↕  
 \*/\*: \*= Color

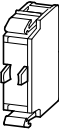







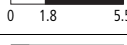

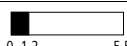


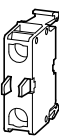



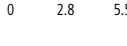



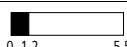
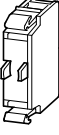

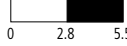

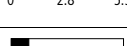

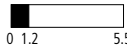




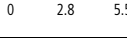
**Information relevant for export to North America**



Product Standards	IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking
UL File No.	E29184
UL CCN	NKCR
CSA File No.	012528
CSA Class No.	3211-03
NA Certification	UL Listed, CSA certified
Degree of Protection	UL/CSA Type 3R, 4X, 12, 13



Configuration	Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America				
<b>Fixing adapters</b>								
Fixing adapter (front fixing) for 3contact LED elements For M22-(C)K... contact elements and M22-(C)LED... LED elements. Sequence numbers on fixing adapter								
 <table border="1" data-bbox="351 421 470 465"> <tr> <td>1/4</td> <td>3/6</td> <td>2/5</td> </tr> </table>	1/4	3/6	2/5	<b>M22-A</b> 216374		50 off 	UL/CSA certification not required	
1/4	3/6	2/5						
	<b>M22-A-GVP</b> 216375		500 off 					
Fixing adapter (front fixing) for 4 contact elements, can be used with M22-WR4, -D4, -WJ..., -WRJ... For M22-(C)K contact elements								
 <table border="1" data-bbox="351 616 502 649"> <tr> <td>3</td> <td>2</td> <td>4</td> <td>1</td> </tr> </table>	3	2	4	1	<b>M22-A4</b> 279437		10 off 	Product Standards IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking UL File No. E29184 UL CCN NKCR CSA File No. 012528 CSA Class No. 3211-03 NA Certification UL Listed, CSA certified
3	2	4	1					

Terminal type	Contact configuration: ⊕ = Safety function by positive opening according to IEC/EN 60947-5-1	Circuit symbol	Contact travel diagram, hub in connection with front element	Configuration	Part no. Article no.	Price See price list	Std. pack			
<b>Contact elements</b>										
<b>Front fixing</b> 	Screw terminals	1 N/O			<table border="1" data-bbox="933 996 1045 1041"> <tr> <td>1/4</td> <td>3/6</td> <td>2/5</td> </tr> </table>	1/4	3/6	2/5	<b>M22-K10</b> 216376	20 off 
		1/4	3/6	2/5						
		1 N/O			<b>M22-K10-GVP</b> 216377	500 off 				
		1 N/O			<table border="1" data-bbox="933 1164 1045 1209"> <tr> <td>1/4</td> <td>3/6</td> <td>2/5</td> </tr> </table>	1/4	3/6	2/5	<b>M22-K10P</b> 110835	20 off 
		1/4	3/6	2/5						
		1 NC ⊕				<b>M22-K01</b> 216378	20 off 			
1 NC ⊕			<b>M22-K01-GVP</b> 216379	500 off 						
1 NC ⊕			<b>M22-K01D</b> 262165	20 off 						
<b>Base fixing</b> 	Screw terminals	1 N/O			<table border="1" data-bbox="933 1332 1045 1377"> <tr> <td>2</td> <td>3</td> <td>1</td> </tr> </table>	2	3	1	<b>M22-KC10</b> 216380	20 off 
		2	3	1						
		1 N/O			<b>M22-KC10-GVP</b> 216381	200 off 				
		1 NC ⊕			<table border="1" data-bbox="933 1433 1045 1478"> <tr> <td>2</td> <td>3</td> <td>1</td> </tr> </table>	2	3	1	<b>M22-KC01</b> 216382	20 off 
2	3	1								
1 NC ⊕			<b>M22-KC01-GVP</b> 216383	200 off 						
<b>Front mounting</b> 	Spring-cage terminals	1 N/O			<table border="1" data-bbox="933 1556 1045 1601"> <tr> <td>1/4</td> <td>3/6</td> <td>2/5</td> </tr> </table>	1/4	3/6	2/5	<b>M22-CK10</b> 216384	20 off 
		1/4	3/6	2/5						
		1 NC ⊕			<table border="1" data-bbox="933 1624 1045 1668"> <tr> <td>1/4</td> <td>3/6</td> <td>2/5</td> </tr> </table>	1/4	3/6	2/5	<b>M22-CK01</b> 216385	
1/4	3/6	2/5								
1 NC ⊕			<b>M22-CK01D</b> 262510							
<b>Base fixing</b> 	Spring-cage terminals	1 N/O			<table border="1" data-bbox="933 1758 1045 1803"> <tr> <td>2</td> <td>3</td> <td>1</td> </tr> </table>	2	3	1	<b>M22-CKC10</b> 216386	20 off 
		2	3	1						
1 NC ⊕			<table border="1" data-bbox="933 1825 1045 1870"> <tr> <td>2</td> <td>3</td> <td>1</td> </tr> </table>	2	3	1	<b>M22-CKC01</b> 216387	20 off 		
2	3	1								

Information relevant for export to North America



Product Standards IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking  
 UL File No. E29184  
 UL CCN NKCR  
 CSA File No. 012528  
 CSA Class No. 3211-03  
 NA Certification UL Listed, CSA certified  
 Degree of Protection/UL/CSA Type: -










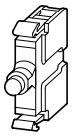












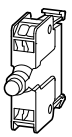















	Rated operational voltage	Rated operational current	Power consumption	Color	Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America	
	U <sub>e</sub> V	I <sub>e</sub> mA	P W						
<b>LED elements with screw terminals</b>									
→ Engineering									
<b>Front mounting</b> 	12-30 V AC/DC	8 - 15	0.26 at 24 V	○	<b>M22-LED-W</b> 216557		20 off	Product Standards IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking UL File No. E29184 UL CCN NKCR CSA File No. 012528 CSA Class No. 3211-03 NA Certification UL Listed, CSA certified Degree of Protection UL/CSA Type: -	
				●	<b>M22-LED-R</b> 216558				
				●	<b>M22-LED-G</b> 216559				
				●	<b>M22-LED-B</b> 218057				
	85 - 264 V AC, 50/60 Hz	5 - 15	0.33 at 230 V	○	<b>M22-LED230-W</b> 216563		20 off		
				●	<b>M22-LED230-R</b> 216564				
				●	<b>M22-LED230-G</b> 216565				
				●	<b>M22-LED230-B</b> 218059				
	207 - 264 V AC, 50/60 Hz	12 - 15	0.33 at 230 V	—	<b>M22-LED230H-*1)</b> 106521		20 off		
	<b>Base fixing</b> 	12-30 V AC/DC	8 - 15	0.26 at 24 V	○	<b>M22-LEDC-W</b> 216560			20 off
					●	<b>M22-LEDC-R</b> 216561			
					●	<b>M22-LEDC-G</b> 216562			
●					<b>M22-LEDC-B</b> 218058				
85 - 264 V AC, 50/60 Hz		5 - 15	0.33 at 230 V	○	<b>M22-LEDC230-W</b> 216566		20 off		
				●	<b>M22-LEDC230-R</b> 216567				
				●	<b>M22-LEDC230-G</b> 216568				
				●	<b>M22-LEDC230-B</b> 218060				
207 - 264 V AC, 50/60 Hz		12 - 15	0.33 at 230 V	—	<b>M22-LEDC230H-*1)</b> 106522		20 off		

**Notes**

1) Enter color at: \*  
W = white, R = red, G = green, B = blue

For pushbutton actuators, indicator lights, illuminated pushbutton actuators and illuminated selector switch actuators, the following applies:

- M22...-R only in combination with M22-LED...-R
- M22...-G only in combination with M22-LED...-G
- M22...-W only in combination with M22-LED...-W
- M22...-Y only in combination with M22-LED...-Y
- M22...-B in combination with M22-LED...-W or M22-LED...-B

Rated operational voltage	Rated operational current	Power consumption	Color	Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America
$U_e$ V	$I_e$ mA	P W					 
<b>LED elements with Cage Clamp</b>							
→ Engineering Cage Clamp is a registered trademark of Wago Kontakttechnik GmbH/Minden, Germany							
							
	12-30 V AC/DC	8 - 15	0.26 at 24 V		<b>M22-CLED-W</b> 216569	20 off  	Product Standards IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking E29184 UL File No. NKCR UL CCN CSA File No. 012528 CSA Class No. 3211-03 NA Certification UL Listed, CSA certified Degree of Protection UL/CSA Type: -
					<b>M22-CLED-R</b> 216570		
					<b>M22-CLED-G</b> 216571		
					<b>M22-CLED-B</b> 218061		
	85 - 264 V AC, 50/60 Hz	5 - 15	0.33 at 230 V		<b>M22-CLED230-W</b> 216575	20 off  	
					<b>M22-CLED230-R</b> 216576		
					<b>M22-CLED230-G</b> 216577		
					<b>M22-CLED230-B</b> 218063		
	12-30 V AC/DC	8 - 15	0.26 at 24 V		<b>M22-CLEDC-W</b> 216572	20 off  	
					<b>M22-CLEDC-R</b> 216573		
					<b>M22-CLEDC-G</b> 216574		
					<b>M22-CLEDC-B</b> 218062		
	85 - 264 V AC, 50/60 Hz	5 - 15	0.33 at 230 V		<b>M22-CLEDC230-W</b> 216578	20 off  	
					<b>M22-CLEDC230-R</b> 216579		
					<b>M22-CLEDC230-G</b> 216580		
					<b>M22-CLEDC230-B</b> 218064		
<b>LED series elements with screw terminals</b>							
Front and base fixing → Engineering							
							
LED resistor element For connecting 12-30 V LED elements	42-60 V AC/DC				<b>M22-XLED60</b> 231078	10 off  	Product Standards IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking E29184 UL File No. NKCR UL CCN CSA File No. 012528 CSA Class No. 3211-03 NA Certification UL Listed, CSA certified Degree of Protection UL/CSA Type: -
					220 V AC/DC		
LED test element For de-coupled function test (lamp test)	12-240 V AC/DC				<b>M22-XLED-T</b> 231079		
	85 - 264 V AC				<b>M22-XLED230-T</b> 231080		

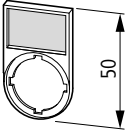
**Notes**

For pushbutton actuators, indicator lights, illuminated pushbutton actuators and illuminated selector switch actuators, the following applies:

M22...-R only in combination with M22-LED...-R  
M22...-G only in combination with M22-LED...-G  
M22...-W only in combination with M22-LED...-W  
M22...-Y only in combination with M22-LED...-Y  
M22...-B in combination with M22-LED...-W or M22-LED...-B


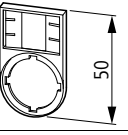
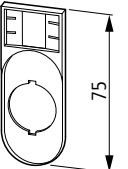
<sup>1)</sup> Maximum ambient temperature: -25 °C to +55 °C  
The LED brightness is reduced.




Inscription	Part no. Article no.	Price See price list	Std. pack	Inscription	Part no. Article no.	Price See price list	Std. pack
<b>Legend plates, complete</b>							
IP66 30 x 50 mm, round, black (RAL 9005)							
	0 - I	<b>M22S-ST-X88</b> 216485	10 off 	FAULT	<b>M22S-ST-GB8</b> 216498		10 off 
	0 - I	<b>M22S-ST-X89</b> 218147		DÉFAUT	<b>M22S-ST-F67</b> 256795		
	I 0 II	<b>M22S-ST-X93</b> 216486		BETRIEB	<b>M22S-ST-D7</b> 216488		
	1	<b>M22S-ST-X52</b> 256797		RUN	<b>M22S-ST-GB7</b> 216497		
	2	<b>M22S-ST-X53</b> 256798		EN SERVICE	<b>M22S-ST-F7</b> 256793		
	STOP	<b>M22S-ST-GB0</b> 216494		HAND AUTO	<b>M22S-ST-D11</b> 216492		
	START	<b>M22S-ST-GB1</b> 216495		MAN. AUTO	<b>M22S-ST-GB11</b> 216500		
	AUS	<b>M22S-ST-D5</b> 218299		AUS EIN	<b>M22S-ST-D10</b> 216490		
	OFF	<b>M22S-ST-GB5</b> 218300		OFF ON	<b>M22S-ST-GB10</b> 216499		
	ARRÊT	<b>M22S-ST-F0</b> 256791		ARRÊT MARCHÉ	<b>M22S-ST-F10</b> 256794		
	EIN	<b>M22S-ST-D6</b> 216487		HAND 0 AUTO	<b>M22S-ST-D12</b> 216493		
	ON	<b>M22S-ST-GB6</b> 216496		MAN. 0 AUTO	<b>M22S-ST-GB12</b> 216501		
	MARCHE	<b>M22S-ST-F1</b> 256792		SOUS TENSION	<b>M22S-ST-F68</b> 256796		
	STÖRUNG	<b>M22S-ST-D8</b> 216489					




Information relevant for export to North America UL/CSA certification not required





Inscription	Color	Part no. Article no.	Price See price list	Std. pack	Notes	Information relevant for export to North America
<b>Legend plates without label</b>						
ATEX  → Engineering IP66 Round, black (RAL 9005), 30 mm wide						
	-	<b>M22S-ST-X</b> 216392		25 off 	Cannot be used for M22(S)-PV...	UL/CSA certification not required
	-	<b>M22S-ST-X-GVP</b> 216393		500 off 		
	For double actuators	<b>M22S-STDD-X</b> 216394		10 off 	-	

**Insert labels for legends**

ATEX  → Engineering  
18 x 27 mm

	Aluminum-colored, no inscription	-	<b>M22-XST</b> 216480	100 off 	-	UL/CSA certification not required
	Aluminum-colored, no inscription	-	<b>M22-XST-GVP</b> 216481	500 off 	-	
	*= With customized inscription to order via Labeleditor → Engineering	-	<b>M22-XST-*</b> 216482	1 off 	Letter height 3 mm, max. 3 lines, max. 12 characters per line Letter height 5 mm, max. 2 lines, max. 8 characters per line	

Inscription or explanation	For use with	Color	Style Flat		Style extended		Std. pack
			Part no. Article no.	Price See price list	Part no. Article no.	Price See price list	
<b>Selection aid for pushbuttons</b>							
≤ 5 characters: letter height 5 mm, > 5 characters: letter height 3 mm							
–	M22(S)-D-X M22(S)-DR-X M22-DG-X	●	<b>M22-XD-S</b> 216421		<b>M22-XDH-S</b> 216428		10 off  
–		○	<b>M22-XD-W</b> 216422		<b>M22-XDH-W</b> 216429		
–		●	<b>M22-XD-R</b> 216423		<b>M22-XDH-R</b> 216430		
–		●	<b>M22-XD-G</b> 216424		<b>M22-XDH-G</b> 216431		
–		●	<b>M22-XD-Y</b> 216425		<b>M22-XDH-Y</b> 216432		
–		●	<b>M22-XD-B</b> 216426		<b>M22-XDH-B</b> 216433		
–		●	<b>M22-XD-GR</b> 132670				
with customized inscription via Labeleditor → Note		–	<b>M22-XD-*.*</b> 216427		<b>M22-XDH-*.*</b> 216434		
Zu		●	<b>M22-XD-S-D2</b> 218184		<b>M22-XDH-S-D2</b> 218229		
Auf		●	<b>M22-XD-S-D3</b> 218185		<b>M22-XDH-S-D3</b> 218230		
Ab		●	<b>M22-XD-S-D4</b> 218186		<b>M22-XDH-S-D4</b> 218231		
Aus		●	<b>M22-XD-R-D5</b> 218187		<b>M22-XDH-R-D5</b> 218232		
Ein		●	<b>M22-XD-S-D6</b> 218188		<b>M22-XDH-S-D6</b> 218233		
Entsperren		●	<b>M22-XD-B-D14</b> 218189		<b>M22-XDH-B-D14</b> 218234		
Vorwärts		●	<b>M22-XD-S-D15</b> 218190		<b>M22-XDH-S-D15</b> 218235		
Rückwärts		●	<b>M22-XD-S-D16</b> 218191		<b>M22-XDH-S-D16</b> 218236		
Heben		●	<b>M22-XD-S-D17</b> 218192		<b>M22-XDH-S-D17</b> 218237		
Senken		●	<b>M22-XD-S-D18</b> 218193		<b>M22-XDH-S-D18</b> 218238		
STOP		●	<b>M22-XD-R-GB0</b> 218194		<b>M22-XDH-R-GB0</b> 218239		
STOP		●	<b>M22-XD-S-GB0</b> 218195		<b>M22-XDH-S-GB0</b> 218240		
START		●	<b>M22-XD-G-GB1</b> 218196		<b>M22-XDH-G-GB1</b> 218241		
START		○	<b>M22-XD-W-GB1</b> 218197		<b>M22-XDH-W-GB1</b> 218242		
CLOSE		●	<b>M22-XD-S-GB2</b> 218198		<b>M22-XDH-S-GB2</b> 218243		
UP		●	<b>M22-XD-S-GB3</b> 218199		<b>M22-XDH-S-GB3</b> 218244		
DOWN		●	<b>M22-XD-S-GB4</b> 218200		<b>M22-XDH-S-GB4</b> 218245		
TEST		●	<b>M22-XD-S-GB9</b> 218201		<b>M22-XDH-S-GB9</b> 218246		
OFF		●	<b>M22-XD-R-GB5</b> 218202		<b>M22-XDH-R-GB5</b> 218247		
ON		●	<b>M22-XD-S-GB6</b> 218203		<b>M22-XDH-S-GB6</b> 218248		

**Notes**

When ordering, state complete part no. M22-XD(H)-\*.\*:

1st wildcard Δ color: -R, -G, -B, -W, -Y, -S -GR

2nd wildcard Δ file name generated by Labeleditor → Engineering

Text size 3 mm:

max. 8 characters in 1st line,  
10 characters in 2nd line,  
8 characters in 3rd line

Text size 5 mm:

Max. 5 characters per line

**Information relevant for export to North America**

UL/CSA certification not required



Inscription or explanation	For use with	Color, symbol	Style Flat	Price See price list	Style extended	Std. pack
			Part no. Article no.		Part no. Article no.	
<b>Selection aid for pushbuttons</b>						
≤ 5 characters: letter height 5 mm						
> 5 characters: letter height 3 mm						
RESET	M22(S)-D-X M22(S)-DR-X M22-DG-X		<b>M22-XD-B-GB14</b> 218204		<b>M22-XDH-B-GB14</b> 218249	10 off  
FORWARD			<b>M22-XD-S-GB15</b> 218205		<b>M22-XDH-S-GB15</b> 218250	
REVERSE			<b>M22-XD-S-GB16</b> 218206		<b>M22-XDH-S-GB16</b> 218251	
RAISE			<b>M22-XD-S-GB17</b> 218208		<b>M22-XDH-S-GB17</b> 218252	
LOWER			<b>M22-XD-S-GB18</b> 218209		<b>M22-XDH-S-GB18</b> 218253	
Stopp			<b>M22-XD-R-X0</b> 218153		<b>M22-XDH-R-X0</b> 218155	
Stopp			<b>M22-XD-S-X0</b> 218154		<b>M22-XDH-S-X0</b> 218156	
Start			<b>M22-XD-G-X1</b> 218165		<b>M22-XDH-G-X1</b> 218210	
Start			<b>M22-XD-S-X1</b> 218166		<b>M22-XDH-S-X1</b> 218211	
Start			<b>M22-XD-W-X1</b> 218167		<b>M22-XDH-W-X1</b> 218212	
Start			<b>M22-XD-G-X2</b> 218168		<b>M22-XDH-G-X2</b> 218213	
Start			<b>M22-XD-S-X2</b> 218169		<b>M22-XDH-S-X2</b> 218214	
Increase			<b>M22-XD-S-X4</b> 218170		<b>M22-XDH-S-X4</b> 218215	
Acceptance			<b>M22-XD-S-X5</b> 218171		<b>M22-XDH-S-X5</b> 218216	
Reset			<b>M22-XD-B-X6</b> 218172		<b>M22-XDH-B-X6</b> 218217	
Direction of movement			<b>M22-XD-S-X7</b> 218173		<b>M22-XDH-S-X7</b> 218218	
Direction of movement			<b>M22-XD-S-X8</b> 218174		<b>M22-XDH-S-X8</b> 218219	
Hand			<b>M22-XD-S-X9</b> 218175		<b>M22-XDH-S-X9</b> 218220	
Automatic			<b>M22-XD-S-X10</b> 218176		<b>M22-XDH-S-X10</b> 218221	
Inch			<b>M22-XD-S-X11</b> 218177		<b>M22-XDH-S-X11</b> 218222	
Unlock			<b>M22-XD-S-X12</b> 218178		<b>M22-XDH-S-X12</b> 218223	
Loosen			<b>M22-XD-S-X13</b> 218179		<b>M22-XDH-S-X13</b> 218224	
Clamp			<b>M22-XD-S-X14</b> 218180		<b>M22-XDH-S-X14</b> 218225	
Release			<b>M22-XD-S-X15</b> 218181		<b>M22-XDH-S-X15</b> 218226	
Liquid			<b>M22-XD-S-X16</b> 218182		<b>M22-XDH-S-X16</b> 218227	
Horn			<b>M22-XD-S-X17</b> 218183		<b>M22-XDH-S-X17</b> 218228	

Notes

Information relevant for export to North America



UL/CSA certification not required



Inscription or explanation	For use with	Color	Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America
<b>Button plates for mushroom-headed pushbuttons</b>						
≤ 5 characters: letter height 5 mm > 5 characters: letter height 3 mm						
-	M22(S)-D(R)P-...		<b>M22-XDP-S</b> 216435		10 off	UL/CSA certification not required
-			<b>M22-XDP-W</b> 216436			
-			<b>M22-XDP-R</b> 216437			
-			<b>M22-XDP-G</b> 216438			
-			<b>M22-XDP-Y</b> 216439			
with customized inscription via Labeleditor → Note		-	<b>M22-XDP-*.*)</b> 216440			
Zu			<b>M22-XDP-S-D2</b> 218272			
Auf			<b>M22-XDP-S-D3</b> 218273			
Ab			<b>M22-XDP-S-D4</b> 218274			
Aus			<b>M22-XDP-R-D5</b> 218275			
Ein			<b>M22-XDP-S-D6</b> 218276			
Vorwärts			<b>M22-XDP-S-D15</b> 218277			
Rückwärts			<b>M22-XDP-S-D16</b> 218278			
Heben			<b>M22-XDP-S-D17</b> 218279			
Senken			<b>M22-XDP-S-D18</b> 218280			
STOP			<b>M22-XDP-R-GB0</b> 218281			
STOP			<b>M22-XDP-S-GB0</b> 218282			
START			<b>M22-XDP-G-GB1</b> 218283			
START			<b>M22-XDP-W-GB1</b> 218284			
CLOSE			<b>M22-XDP-S-GB2</b> 218285			
UP			<b>M22-XDP-S-GB3</b> 218286			
DOWN			<b>M22-XDP-S-GB4</b> 218287			
OFF			<b>M22-XDP-R-GB5</b> 218289			
ON			<b>M22-XDP-S-GB6</b> 218290			
TEST			<b>M22-XDP-S-GB9</b> 218288			
FORWARD			<b>M22-XDP-S-GB15</b> 218291			
REVERSE			<b>M22-XDP-S-GB16</b> 218292			

**Notes**

<sup>1)</sup> When ordering, the part no must include the following details:  
 1st wildcard \* Δ color: -R, -G, -B, -W, -Y, -S, -GR  
 2nd wildcard \* Δ file name generated by Labeleditor → Engineering

Text size 3 mm:  
 max. 8 characters in first line,  
 10 characters in second line,  
 8 characters in third line



Text size 5 mm:  
 Max. 5 characters per line





Inscription or explanation	For use with	Color	Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America
<b>Button plates for mushroom-headed pushbuttons</b>						
≤ 5 characters: letter height 5 mm > 5 characters: letter height 3 mm						
RAISE	M22(S)-D(R)P-...		<b>M22-XDP-S-GB17</b> 218293		10 off	UL/CSA certification not required
LOWER			<b>M22-XDP-S-GB18</b> 218294			
Stopp			<b>M22-XDP-R-X0</b> 218157			
Stopp			<b>M22-XDP-S-X0</b> 218158			
Start			<b>M22-XDP-G-X1</b> 218254			
Start			<b>M22-XDP-S-X1</b> 218255			
Start			<b>M22-XDP-W-X1</b> 218256			
Start			<b>M22-XDP-G-X2</b> 218257			
Start			<b>M22-XDP-S-X2</b> 218258			
Increase			<b>M22-XDP-S-X4</b> 218259			
Acceptance			<b>M22-XDP-S-X5</b> 218260			
Direction of movement			<b>M22-XDP-S-X7</b> 218261			
Direction of movement			<b>M22-XDP-S-X8</b> 218262			
Hand			<b>M22-XDP-S-X9</b> 218263			
Automatic			<b>M22-XDP-S-X10</b> 218264			
Inch			<b>M22-XDP-S-X11</b> 218265			
Unlock			<b>M22-XDP-S-X12</b> 218266			
Loosen			<b>M22-XDP-S-X13</b> 218267			
Clamp			<b>M22-XDP-S-X14</b> 218268			
Release			<b>M22-XDP-S-X15</b> 218269			
Liquid			<b>M22-XDP-S-X16</b> 218270			
Horn			<b>M22-XDP-S-X17</b> 218271			





Inscription or explanation	For use with	Color	Style flat		Std. pack	Style extended		Std. pack	Information relevant for export to North America
			Part no. Article no.	Price See price list		Part no. Article no.	Price See price list		
<b>Lenses for indicator lights</b>									
≤ 5 characters: letter height 5 mm > 5 characters: letter height 3 mm									
-	M22-L-X M22-LC-X		<b>M22-XL-W</b> 216453		10 off	<b>M22-XLH-W</b> 216459		10 off	UL/CSA certification not required
-			<b>M22-XL-R</b> 216454			<b>M22-XLH-R</b> 216460			
-			<b>M22-XL-G</b> 216455			<b>M22-XLH-G</b> 216461			
-			<b>M22-XL-Y</b> 216456			<b>M22-XLH-Y</b> 216462			
-			<b>M22-XL-B</b> 216457			<b>M22-XLH-B</b> 216463			
With customized inscription via Labeleditor → Note		-	<b>M22-XL-*. *1)</b> 216458						
Zu			<b>M22-XL-W-D2</b> 218403						
Auf			<b>M22-XL-W-D3</b> 218404						
Ab			<b>M22-XL-W-D4</b> 218405						
Aus			<b>M22-XL-R-D5</b> 218406						
Ein			<b>M22-XL-W-D6</b> 218407						
Vorwärts			<b>M22-XL-W-D15</b> 218408						
Rückwärts			<b>M22-XL-W-D16</b> 218409						
Heben			<b>M22-XL-W-D17</b> 218410						
Senken			<b>M22-XL-W-D18</b> 218411						
STOP			<b>M22-XL-R-GB0</b> 218412						
STOP			<b>M22-XL-W-GB0</b> 218413						
START			<b>M22-XL-G-GB1</b> 218414						
START			<b>M22-XL-W-GB1</b> 218415						
CLOSE			<b>M22-XL-W-GB2</b> 218416						
UP			<b>M22-XL-W-GB3</b> 218417						
DOWN			<b>M22-XL-W-GB4</b> 218418						
TEST			<b>M22-XL-W-GB9</b> 218419						
OFF			<b>M22-XL-R-GB5</b> 218420						
ON			<b>M22-XL-W-GB6</b> 218421						
FORWARD			<b>M22-XL-W-GB15</b> 218422						

**Notes**

<sup>1)</sup> When ordering, the part no must include the following details:  
 1st wildcard Δ color: -R, -G, -B, -W, -Y, -S  
 2nd wildcard Δ file name generated by Labeleditor → Engineering



























Text size 3 mm:  
 max. 8 characters in first line,  
 10 characters in second line,  
 8 characters in third line



Text size 5 mm:  
 Max. 5 characters per line





Inscription or explanation	For use with	Color, symbol	Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America  
<b>Lenses for indicator lights</b>						
≤ 5 characters: letter height 5 mm > 5 characters: letter height 3 mm						
REVERSE	M22-L-X M22-LC-X		<b>M22-XL-W-GB16</b> 218423		10 off  	UL/CSA certification not required
RAISE			<b>M22-XL-W-GB17</b> 218424			
LOWER			<b>M22-XL-W-GB18</b> 218425			
Stopp			<b>M22-XL-R-X0</b> 218163			
Stopp			<b>M22-XL-W-X0</b> 218164			
Start			<b>M22-XL-G-X1</b> 218384			
Start			<b>M22-XL-W-X1</b> 218385			
Start			<b>M22-XL-G-X2</b> 218386			
Start			<b>M22-XL-W-X2</b> 218387			
Increase			<b>M22-XL-W-X4</b> 218388			
Acceptance			<b>M22-XL-W-X5</b> 218389			
Direction of movement			<b>M22-XL-W-X7</b> 218390			
Direction of movement			<b>M22-XL-W-X8</b> 218391			
Hand			<b>M22-XL-W-X9</b> 218392			
Automatic			<b>M22-XL-W-X10</b> 218393			
Inch			<b>M22-XL-W-X11</b> 218394			
Unlock			<b>M22-XL-W-X12</b> 218395			
Loosen			<b>M22-XL-W-X13</b> 218396			
Clamp			<b>M22-XL-W-X14</b> 218399			
Release			<b>M22-XL-W-X15</b> 218400			
Liquid			<b>M22-XL-W-X16</b> 218401			
Horn			<b>M22-XL-W-X17</b> 218402			



Inscription or explanation	For use with	Color	Style flat Part no. Article no.	Price See price list	Std. pack	Style extended Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America 
<b>Lenses for illuminated pushbutton actuators</b>									
≤ 5 characters: letter height 5 mm > 5 characters: letter height 3 mm									
-	M22(S)-DL-X M22(S)-DRL-X M22S-DGL-X		<b>M22-XDL-W</b> 216441		10 off 	<b>M22-XDLH-W</b> 216447		10 off 	UL/CSA certification not required
-			<b>M22-XDL-R</b> 216442			<b>M22-XDLH-R</b> 216448			
-			<b>M22-XDL-G</b> 216443			<b>M22-XDLH-G</b> 216449			
-			<b>M22-XDL-Y</b> 216444			<b>M22-XDLH-Y</b> 216450			
-			<b>M22-XDL-B</b> 216445			<b>M22-XDLH-B</b> 216451			
with customized inscription to order via Labeleditor → Note		-	<b>M22-XDL-*.*)</b> 216446			<b>M22-XDLH-*.*)</b> 216452			
Zu			<b>M22-XDL-W-D2</b> 218316			<b>M22-XDLH-W-D2</b> 218359			
Auf			<b>M22-XDL-W-D3</b> 218317			<b>M22-XDLH-W-D3</b> 218360			
Ab			<b>M22-XDL-W-D4</b> 218318			<b>M22-XDLH-W-D4</b> 218361			
Aus			<b>M22-XDL-R-D5</b> 218319			<b>M22-XDLH-R-D5</b> 218362			
Ein			<b>M22-XDL-W-D6</b> 218320			<b>M22-XDLH-W-D6</b> 218363			
Entsperren			<b>M22-XDL-B-D14</b> 218321			<b>M22-XDLH-B-D14</b> 218364			
Vorwärts			<b>M22-XDL-W-D15</b> 218322			<b>M22-XDLH-W-D15</b> 218365			
Rückwärts			<b>M22-XDL-W-D16</b> 218323			<b>M22-XDLH-W-D16</b> 218366			
Heben			<b>M22-XDL-W-D17</b> 218324			<b>M22-XDLH-W-D17</b> 218367			
Senken			<b>M22-XDL-W-D18</b> 218325			<b>M22-XDLH-W-D18</b> 218368			
STOP			<b>M22-XDL-R-GB0</b> 218326			<b>M22-XDLH-R-GB0</b> 218369			
STOP			<b>M22-XDL-W-GB0</b> 218327			<b>M22-XDLH-W-GB0</b> 218370			
START			<b>M22-XDL-G-GB1</b> 218328			<b>M22-XDLH-G-GB1</b> 218371			
START			<b>M22-XDL-W-GB1</b> 218329			<b>M22-XDLH-W-GB1</b> 218372			
CLOSE			<b>M22-XDL-W-GB2</b> 218330			<b>M22-XDLH-W-GB2</b> 218373			
UP			<b>M22-XDL-W-GB3</b> 218331			<b>M22-XDLH-W-GB3</b> 218374			
DOWN			<b>M22-XDL-W-GB4</b> 218332			<b>M22-XDLH-W-GB4</b> 218375			
TEST			<b>M22-XDL-W-GB9</b> 218333			<b>M22-XDLH-W-GB9</b> 218376			
OFF			<b>M22-XDL-R-GB5</b> 218334			<b>M22-XDLH-R-GB5</b> 218377			
ON			<b>M22-XDL-W-GB6</b> 218335			<b>M22-XDLH-W-GB6</b> 218378			

**Notes**

<sup>1)</sup> When ordering, the part no must include the following details:  
1st wildcard \* Δ color: -R, -G, -B, -W, -Y  
2nd wildcard \* Δ File name generated by Labeleditor → Engineering
































Text size 3 mm:  
max. 8 characters in first line,  
10 characters in second line,  
8 characters in third line



Text size 5 mm:  
Max. 5 characters per line





Inscription or explanation	For use with	Color, symbol	Style flat			Style extended			Information relevant for export to North America  
			Part no. Article no.	Price See price list	Std. pack	Part no. Article no.	Price See price list	Std. pack	
<b>Lenses for illuminated pushbutton actuators</b>									
≤ 5 characters: letter height 5 mm > 5 characters: letter height 3 mm									
RESET	M22(S)-DL-X M22(S)-DRL-X M22S-DGL-X		<b>M22-XDL-B-GB14</b> 218336		10 off  	<b>M22-XDLH-B-GB14</b> 218379		10 off  	UL/CSA certification not required
FORWARD			<b>M22-XDL-W-GB15</b> 218337			<b>M22-XDLH-W-GB15</b> 218380			
REVERSE			<b>M22-XDL-W-GB16</b> 218338			<b>M22-XDLH-W-GB16</b> 218381			
RAISE			<b>M22-XDL-W-GB17</b> 218339			<b>M22-XDLH-W-GB17</b> 218382			
LOWER			<b>M22-XDL-W-GB18</b> 218340			<b>M22-XDLH-W-GB18</b> 218383			
Stopp			<b>M22-XDL-R-X0</b> 218159			<b>M22-XDLH-R-X0</b> 218161			
Stopp			<b>M22-XDL-W-X0</b> 218160			<b>M22-XDLH-W-X0</b> 218162			
Start			<b>M22-XDL-G-X1</b> 218295			<b>M22-XDLH-G-X1</b> 218341			
Start			<b>M22-XDL-W-X1</b> 218296			<b>M22-XDLH-W-X1</b> 218342			
Start			<b>M22-XDL-G-X2</b> 218297			<b>M22-XDLH-G-X2</b> 218343			
Start			<b>M22-XDL-W-X2</b> 218301			<b>M22-XDLH-W-X2</b> 218344			
Increase			<b>M22-XDL-W-X4</b> 218302			<b>M22-XDLH-W-X4</b> 218345			
Acceptance			<b>M22-XDL-W-X5</b> 218303			<b>M22-XDLH-W-X5</b> 218346			
Reset			<b>M22-XDL-B-X6</b> 218304			<b>M22-XDLH-B-X6</b> 218347			
Directions			<b>M22-XDL-W-X7</b> 218305			<b>M22-XDLH-W-X7</b> 218348			
Directions			<b>M22-XDL-W-X8</b> 218306			<b>M22-XDLH-W-X8</b> 218349			
Hand			<b>M22-XDL-W-X9</b> 218307			<b>M22-XDLH-W-X9</b> 218350			
Automatic			<b>M22-XDL-W-X10</b> 218308			<b>M22-XDLH-W-X10</b> 218351			
Inch			<b>M22-XDL-W-X11</b> 218309			<b>M22-XDLH-W-X11</b> 218352			
Unlock			<b>M22-XDL-W-X12</b> 218310			<b>M22-XDLH-W-X12</b> 218353			
Loosen		<b>M22-XDL-W-X13</b> 218311		<b>M22-XDLH-W-X13</b> 218354					
Clamp		<b>M22-XDL-W-X14</b> 218312		<b>M22-XDLH-W-X14</b> 218355					
Release		<b>M22-XDL-W-X15</b> 218313		<b>M22-XDLH-W-X15</b> 218356					
Liquid		<b>M22-XDL-W-X16</b> 218314		<b>M22-XDLH-W-X16</b> 218357					
Horn		<b>M22-XDL-W-X17</b> 218315		<b>M22-XDLH-W-X17</b> 218358					



	Protection type	Mounting locations	Color	RAL value	Knock-out cable entries	Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America
		Number			Number × M20				
<b>Flush mounting panels</b>									
No legend plates possible with vertical arrangements Protection type only in conjunction with a suitable enclosure and correct mounting.									
Aluminium with yellow paint finish for Emergency switching off		IP65	1		RAL 1004	-	<b>M22-EY1</b> 216542	5 off 	<b>Product Standards</b> IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking  <b>UL File No.</b> E29184 <b>UL CCN</b> NKCR <b>CSA File No.</b> 012528 <b>CSA Class No.</b> 3211-03 <b>NA Certification</b> UL Listed, CSA certified <b>Degree of Protection</b> UL/CSA Type 3R, 4X, 12, 13
Aluminium light anodized, including M22-XE...			1		RAL 7035	-	<b>M22-E1</b> 216541		
			2			-	<b>M22-E2</b> 216543		
			3			-	<b>M22-E3</b> 216544		
			4			-	<b>M22-E4</b> 216545	1 off 	
			5			-	<b>M22-E5</b> 216546		
		IP40	6			-	<b>M22-E6</b> 216547		
<b>Shrouds</b>									
Plastic, light grey Protection type only in combination with flush mounting plates M22-E...									
		IP55	1		RAL 7035	3	<b>M22-H1</b> 216548	1 off 	<b>Product Standards</b> IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking  <b>UL File No.</b> E29184 <b>UL CCN</b> NKCR <b>CSA File No.</b> 012528 <b>CSA Class No.</b> 3211-03 <b>NA Certification</b> UL Listed, CSA certified <b>Degree of Protection</b> UL/CSA Type 3R, 4X, 12, 13
			2			4	<b>M22-H2</b> 216549		
			3			4	<b>M22-H3</b> 216550		
		IP40	4			4	<b>M22-H4</b> 216551		
			5			5	<b>M22-H5</b> 216552		
			6			6	<b>M22-H6</b> 216553		
<b>Set of plaster keys</b>									
Comprising two plaster keys as mounting aids For plastering of shrouds									
		-	-	-	-	-	<b>M22-UPE</b> 216554	1 off 	<b>Product Standards</b> IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking  <b>UL File No.</b> E29184 <b>UL CCN</b> NKCR <b>CSA File No.</b> 012528 <b>CSA Class No.</b> 3211-03 <b>NA Certification</b> UL Listed, CSA certified <b>Degree of Protection</b> UL/CSA Type 3R, 4X, 12, 13

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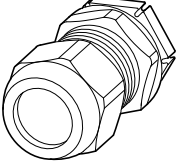
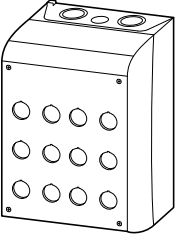



	Mounting locations	Cable entry knockouts		Color	RAL value	Protection type	Part no. Article no.	Price See price list	Std. pack
	Number	Floor Number × M...	Pages Number × M...						
<b>Surface mounting enclosures</b>									
With high-grade steel screws Enclosure base: anthracite									
ATEX  ATEX part numbers for use in dust-laden areas, Zone 22, Category 3 → Engineering									
totally insulated									
	For emergency-switching-off pushbuttons	1	2 x 16	1 x 20 2 x 25/20		RAL 1004	IP67, IP69K	<b>M22-IY1</b> 216536	1 off 
		1	2 x 16	1 x 20 2 x 25/20		RAL 1004	IP67, IP69K	<b>M22-IY1-ATEX</b> 104370	1 off
		1	2 x 16	1 x 20 2 x 25/20		RAL 7035	IP67, IP69K	<b>M22-I1</b> 216535	1 off 
		1	2 x 16	1 x 20 2 x 25/20		RAL 7035	IP67, IP69K	<b>M22-I1-ATEX</b> 104371	1 off
		2	2 x 20	1 x 20 2 x 25/20		RAL 7035	IP67, IP69K	<b>M22-I2</b> 216537	1 off 
		2	2 x 20	1 x 20 2 x 25/20		RAL 7035	IP67, IP69K	<b>M22-I2-ATEX</b> 104372	1 off
		3	2 x 20	2 x 20 2 x 25/20		RAL 7035	IP67, IP69K	<b>M22-I3</b> 216538	1 off 
		3	2 x 20	2 x 20 2 x 25/20		RAL 7035	IP67, IP69K	<b>M22-I3-ATEX</b> 104373	1 off
		4	2 x 20	2 x 20 2 x 25/20		RAL 7035	IP67, IP69K	<b>M22-I4</b> 216539	1 off 
		4	2 x 20	2 x 20 2 x 25/20		RAL 7035	IP67, IP69K	<b>M22-I4-ATEX</b> 104374	1 off
		6	2 x 20	2 x 20 2 x 25/20		RAL 7035	IP66	<b>M22-I6</b> 216540	1 off 
		6	2 x 20	2 x 20 2 x 25/20		RAL 7035	IP66	<b>M22-I6-ATEX</b> 104375	1 off

Notes

Information relevant for export to North America



Product Standards	IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking
UL File No.	E29184
UL CCN	NKCR
CSA File No.	012528
CSA Class No.	3211-03
NA Certification	UL Listed, CSA certified
Degree of Protection	UL/CSA Type 3R, 4X, 12, 13

Mounting locations	Cable entry knockouts		Color	RAL value	Protection type	Part no. Article no.	Price See price list	Std. pack
	Floor	Pages						
Number	Number × M...	Number × M...						
<b>M20 connecting screw</b>								
For connection of any M22-I... surface mounting enclosures Mounting by M20 cable entry from the side								
	-	-	-	-	-	IP67	<b>M22-XI</b> 229162	25 off  
<b>M20 metric cable glands according to EN 50262</b>								
With lock nut and built-in strain relief Polyamide, halogen free External diameter of cable 6 - 13 mm								
	-	-	-	-	-	IP68, IP69K	<b>V-M20</b> 206910	20 off
<b>Surface mounting enclosures</b>								
Including mounting plate for base fixing Enclosure base: anthracite								
	12	2 x 32/25	2 x 20 4 x 32/25		RAL 7035	IP55	<b>M22-I12</b> 222688	1 off  

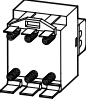

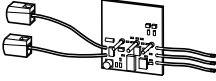

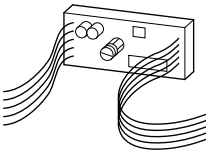
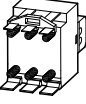

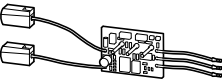

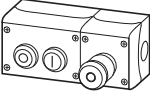
## Notes

## Information relevant for export to North America



Product Standards	IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking
UL File No.	E29184
UL CCN	NKCR
CSA File No.	012528
CSA Class No.	3211-03
NA Certification	UL Listed, CSA certified
Degree of Protection	UL/CSA Type 3R, 4X, 12, 13















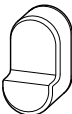








	Description	Part no. Article no.	Price See price list	Std. pack
<b>AS-Interface connection for RMQ-Titan</b>				
	For front mounting (RMQ-Titan)	AS-Interface slave Adapter element for RMQ-Titan AS-Interface information: 2 input bits, 1 output bit Module enclosure for snap fitting on the contact and LED elements: Inputs for 2 contact elements: M22-K01 (normally closed contact), M22-K10 (normally open contact) Output for 1 LED element: M22-LED-... Including AS-Interface connector as insulation piercing terminal	<b>M22-ASI</b> 231269	1 off 
	for base fixing (RMQ-Titan)	Adapter element for RMQ-Titan AS-Interface information: 2 input bits, 1 output bit Inputs for two contacts Output for 1 LED element: M22-LED-...	<b>M22-ASI-C</b> 231271	1 off 
	For surface mounting enclosures (RMQ-Titan)	External connections: 4 inputs/4 outputs For contact and lamp socket elements. RMQ-Titan surface mounting enclosures: M22-I3, M22-I4, M22-I6	<b>RMQ-M1C-ASI</b> 032314	1 off
<b>Emergency switching off connections for AS-Interface for safety monitor</b>				
	For front fixing	AS-Interface slave Adapter element for RMQ-Titan AS-Interface information: 1 dual-channel input, 1 output Module enclosure for snap fitting on the contact and LED elements: Inputs for 2 contact elements: M22-K01 (NC) Output for 1 LED element: M22-LED-... Including AS-Interface connector as insulation piercing terminal	<b>M22-ASI-S</b> 231270	1 off 
	For base fixing	AS-Interface slave Adapter element for RMQ-Titan or FAK AS-Interface information: 1 dual-channel input, 1 output For the following RMQ-Titan contact and LED elements: Inputs for 2 contact elements: M22-K01 (NC), M22-K01 (NC) Output for 1 LED element: M22-LED-...	<b>M22-ASI-CS</b> 231272	1 off 
	<b>AS-Interface complete unit</b>	M22-I2 and M22-I2Y surface mounting enclosures M22-PVL emergency-off button actuator and ON-OFF pushbutton actuator; ON illuminated 1 x M22-AS-Interface-CS and 1 x M22-AS-Interface-C 1 x M12A connector Addressing M22-PVL → 0; ON-OFF 1 A	<b>M22-I1/2-M1-ASI</b> 107405	1 off

**Information relevant for export to North America**




Product Standards	IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking
UL File No.	E29184
UL CCN	NKCR
CSA File No.	012528
CSA Class No.	3211-03
NA Certification	UL Listed, CSA certified

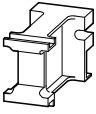
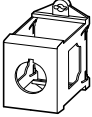








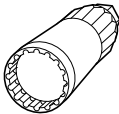

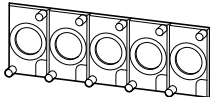

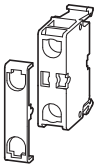

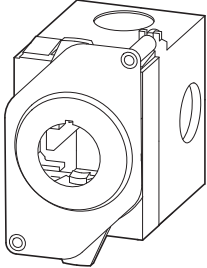
For use with	Color	RAL value	Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America 
<b>Bezel gold (24 karat)</b>						
Bezel not available individually: Can be ordered only through Eaton sales office as M22-COMBINATION-* (customer-specific complete devices)						
	-	-	<b>M22-FR-AU</b> 274150		1 off 	UL/CSA certification not required
<b>Blanking plugs</b>						
ATEX  → Engineering round design, IP67, IP69K For closing off of spare mounting locations						
	-	●	RAL 7035	<b>M22-B</b> 216388	50 off 	NA Certification Request filed for UL and Degree of Protection CSA UL/CSA Type 3R, 4X, 12, 13
-	-	●	RAL 7035	<b>M22-B-GVP</b> 216389	250 off 	
-	●	RAL 9005	<b>M22S-B</b> 216390	50 off 		
-	●	RAL 9005	<b>M22S-B-GVP</b> 216391	250 off 		
<b>Pushbutton diaphragm for IP67, IP69K, silicone</b>						
ATEX  → Engineering Transparent diaphragms for severe environmental conditions and use in the food industry. Do not use with legend plate mount M22S-ST since degree of protection is not guaranteed						
	M22(N/O)-D-(R)-... M22(N/O)-DL-... M22(N/O)-DRL-... M22(N/O)-L(C)-...	-	-	<b>M22-T-D</b> 216395	10 off 	NA Certification Request filed for UL and Degree of Protection CSA UL/CSA Type 3R, 4X, 12, 13
	M22(N/O)-DDL...	-	-	<b>M22-T-DD</b> 216396	10 off 	
For use with		Color	RAL value	Part no. Article no.	Price See price list	Std. pack
<b>Protective diaphragm, silicone</b>						
ATEX  → Engineering Prevents ingress of dirt and dust into the key opening						
	M22-WS...	-	-	<b>M22-XWS</b> 231275		5 off 
<b>Telescopic clip</b>						
For adjusting mounting depth for mounting in enclosures CI and panels with mounting depths from 115 to 155 mm. Infinitely adjustable, screw- and snap-on mounting (mounting rail IEC/EN 60715) up to 10 × M22-TC per enclosure permissible, of which 5 with maintained buttons. Do not use in combination with emergency switching-off pushbuttons						
Three contact/LED elements with base fixing, Including centring adapter						
	-	-	-	<b>M22-TC</b> 216398		10 off 
With top-hat rail IEC/EN 60715, width 44 mm For mounting of EASY, FAZ, PKZ, DIL etc. weighing ≤ 0.3 kg						
	EASY200, EASY500, EASY700, EASY800, MFD-CP8, EC4P Infinitely adjustable via scale from 75 to 115 mm	-	-	<b>M22-TA</b> 226161		1 off 







**Information relevant for export to North America**

	Product Standards	IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking
	UL File No.	E29184
	UL CCN	NKCR
	CSA File No.	012528
	CSA Class No.	3211-03
	NA Certification	UL Listed, CSA certified






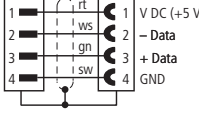



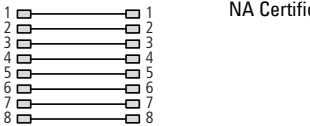














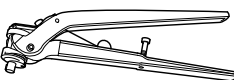




For use with		Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America 
<b>Extension</b>					
	Telescopic clip for mounting depth 205 mm	<b>M22-TCV</b> 225527		5 off 	Product Standards IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking UL File No. E29184 UL CCN NKCR CSA File No. 012528 CSA Class No. 3211-03 NA Certification UL Listed, CSA certified
<b>IVS top-hat rail adapter</b>					
	Top-hat rail to IEC/EN 60715 for front fixing	<b>M22-IVS</b> 216400		1 off 	Product Standards IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking UL File No. E29184 UL CCN NKCR CSA File No. 012528 CSA Class No. 3211-03 NA Certification UL Listed, CSA certified
<b>Plunger bridge</b>					
For actuating the middle contact element of the M22-W...3 non-illuminated 3-position selector switch actuator → Engineering					
	Middle contact of 3-position selector switch non-illuminated, (1 off) black	<b>M22-XW</b> 216405		10 off 	Product Standards IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking UL File No. E29184 UL CCN NKCR CSA File No. 012528 CSA Class No. 3211-03 NA Certification UL Listed, CSA certified
<b>Guardring</b>					
ATEX  → Engineering To protect against accidental operation, IP66					
	For pushbutton and selector switch actuators (button plates cannot be used)	<b>M22-XGWK</b> 231274		5 off 	Product Standards IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking UL File No. E29184 UL CCN NKCR CSA File No. 012528 CSA Class No. 3211-03 NA Certification UL Listed, CSA certified Degree of Protection UL/CSA no. 3R, 4X, 12, 13
<b>Threaded ring</b>					
M22 x 1.5 mm					
	6.0 mm thick	<b>M22-GR</b> 216401		50 off 	Product Standards IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking UL File No. E29184 UL CCN NKCR CSA File No. 012528 CSA Class No. 3211-03 NA Certification UL Listed, CSA certified
	4.8 mm thick	<b>M22-GR7</b> 288852		50 off 	Product Standards IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking UL File No. E29184 UL CCN NKCR CSA File No. 012528 CSA Class No. 3211-03 NA Certification UL Listed, CSA certified
	6.0 mm thick	<b>M22-GR-GVP</b> 216404		500 off 	Product Standards IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking UL File No. E29184 UL CCN NKCR CSA File No. 012528 CSA Class No. 3211-03 NA Certification UL Listed, CSA certified
<b>Set of adapter rings, 30/22.3 mm</b>					
Black, consisting of adapter ring and fixing nut, IP67, IP69K					
	Mounting of $\varnothing$ 22.3 devices in $\varnothing$ 30.5 drilling dimensions Protection type is determined by the front element.	<b>M22S-R30</b> 216408		10 off 	UL/CSA certification not required

For use with	Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America 
<b>Mounting ring tool</b>  Threaded ring, can be fitted on to electric screwdriver	<b>M22-MS</b> 216402		5 off 	UL/CSA certification not required
<b>Fixing plate</b>  M22-H... shrouds to the M22-E... flush mounting panel for up to 5 mounting locations	<b>M22-XE5</b> 218945		1 off 	UL/CSA certification not required
<b>Dust cover</b>  for M22-K... contacts (front fixing)	<b>M22-XKDP</b> 100647		50 off 	UL/CSA certification not required
<b>Dust cover and mechanical fixing</b> for M22... 5 x M20 knockouts 	Max. 3 contacts <b>M22-ADC</b> 106523		1 off	
Max. 4 contacts <b>M22-ADC4</b> 106524				
Mechanical fixing <b>M22-XADC</b> 107918				

Model	Lifespan at $t_a = +25\text{ }^\circ\text{C}$ $t_{\text{average}} \text{ (AC)}$ h	Color	Part no. Article no.	Price See price list	Std. pack
<b>BA 9s filament bulbs for compact indicator lights</b>					
High-grade versions from selected manufacturers					
 110 - 130 V/2.4 W	2000	-	<b>A22-GL130</b> 261361		100 off
24 V/2.0 W	5000	-	<b>A22-GL24</b> 261360		100 off
<b>BA 9s single-chip LEDs for compact indicator lights</b>					
For AC and DC (positive pole connected to X1), protected against polarity reversal, integral suppressor circuit-breaker up to 1500 V					
 12 - 30 V AC/DC/15 mA	100000		<b>A22-LED-W</b> 261362		10 off
12 - 30 V AC/DC/15 mA	100000		<b>A22-LED-R</b> 261364		
12 - 30 V AC/DC/15 mA	100000		<b>A22-LED-G</b> 261363		
12 - 30 V AC/DC/15 mA	100000		<b>A22-LED-Y</b> 261365		



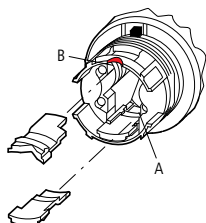
	For use with	Color	Part no. Article no.	Price See price list	Std. pack	Notes	Information relevant for export to North America  
<b>Built-in 2.0 A/A USB socket with connection cable</b>							
IP65 with closed cover IP20 with plug connected							
	Front mounting prefabricated cable (60 cm) with permanently connected USB 2.0 A type	–	<b>M22-USB-SA</b> 107412		1 off  		NA Certification Request filed for UL and CSA
<b>Built-in RJ45 socket</b>							
IP65 with closed cover IP20 with plug connected							
	Front mounting RJ45, 8/8	–	<b>M22-RJ45-SA</b> 107413		1 off  		NA Certification Request filed for UL and CSA
<b>Pushbuttons</b>							
For enclosed overload relays Mounting diameter: 22.3 mm							
	ZW7... ZB12 ZB32 ZB65 ZB150	 	<b>M22-DZ-B</b> 254833 <b>M22-DZ-B-GB14</b> 254834		10 off  	Blue button plate  Blue button plate Inscription: RESET	Product Standards UL 508; CSA-C22.2 No. 14; IEC/EN 60947; CE marking  UL File No. NKCR UL CCN CSA File No. 012528 CSA Class No. 3211-03 NA Certification UL Listed, CSA certified
	M22-DZ-X M22(S)-D-X M22(S)-DR-X M22-D6-X	  	<b>M22-XD-R</b> 216423 <b>M22-XD-R-X0</b> 218153 <b>M22-XD-R-GB0</b> 218194		10 off  	Without button plate, add button plate.  Red button plate  Red button plate with white circle  Red button plate Inscription: STOP	UL/CSA certification not required
<b>Bulb extractor</b>							
With compact indicator light M22-LC(H)...							
	A22-GL... A22-LED...	–	<b>M22-LG</b> 216403		5 off  	–	UL/CSA certification not required
<b>Notching tool</b>							
Punching tool to produce the cutout for the anti-rotation lug to IEC/EN 60947-5-1 St 37 sheet steel, max. 3 mm thickness VA high-grade steel max. 1.5 mm thickness							
		–	<b>BA/C-NZ-22</b> 028144		1 off  	Price not eligible for discount	UL/CSA certification not required
<b>ATEX (only in conjunction with M22-COMBINATION-*)</b>							
For use in accordance with the ATEX directive in dust-laden areas, Zone 22, Category 3 → Engineering							
–	–	–	<b>M22-ATEX</b> 104380		1 off	–	–
<b>Customized complete unit</b>							
→ Engineering To order use form F0315 → Data sheet in Online Catalog * = Freely selectable customer identification or stock no.; max. 10 characters.							
–	–	–	<b>M22-COMBINATION-*</b> 228298		1 off	–	–





## Engineering

### For converting the maintained/momentary function and the key withdraw for 3 positions selector switch actuators



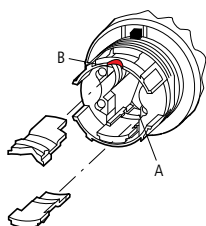
	0	I	O	II
	A			B
60° ↘ 60°	-	✓	✓	-
50° ↘ 50°	✓	x	✓	x
60° ↘ 50°	-	✓	✓	x
50° ↘ 60°	✓	x	-	✓
40° ↘ 40°	✓	x	✓	x
60° ↘ 40°	-	✓	✓	x
50° ↘ 40°	✓	x	✓	x
40° ↘ 60°	✓	x	-	✓
40° ↘ 50°	✓	x	✓	x

✓ = key withdrawable  
x = key not withdrawable

#### Coding adapters

- 2x M22-XC-Y → Page 2/23
- 1x M22-XC-R → Page 2/23
- 1x

### For converting between maintained/momentary function and key withdraw for 2 positions selector switch actuators



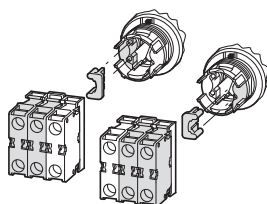
	0	I
	A	B
↘ 60°	✓	✓
↘ 50°	✓	x
↘ 40°	✓	x

✓ = key withdrawable  
x = key not withdrawable

#### Coding adapters

- 2x M22-XC-Y → Page 2/23
- 1x M22-XC-R → Page 2/23
- 1x

### Plunger bridge for the middle contact on 3-position selector switches M22(S)-W...3-...



### Customized inscription of devices using the Labeleditor software

Individually inscribe your device in 4 stages:

- Download the inscription software: [www.moeller.net/support](http://www.moeller.net/support), keyword: "Labeleditor"
- Create label template (menu-guided in the software)
- Send the label template to the factory by email. The email address is automatically set for the selected product by the program. When your template is sent, the Labeleditor issues a file name such as "RMQ\_Silver\_12345.zip". This file name is part of the article to be ordered (see Ordering examples).
- Send order to the Eaton office or the electrical wholesalers.

### Ordering examples

- M22-XST insert plate for M22S-ST-X legend plate mount with special inscription

Basic type: M22-XST-\*

\* = File name generated by Labeleditor

Please order: 1 x M22-XST-RMQ\_Silver\_xxxxxx.zip

- Button plate in green with special inscription

Basic type: M22-XDH-\*

1.\* = Colour (here "G" for green), 2.\* = File name generated by Labeleditor\*

\* = File name generated by Labeleditor

Please order: 1 x M22-XDH-G-RMQ\_Silver\_xxxxxx.zip

- Double pushbutton actuator with white button plates and special symbols

Basic type: M22-DDL-\*. \*-\*. \*

1.\* = Colour (here "W" for white), 2. and 3.\* = File name assigned by Labeleditor; must be stated here 2 x

Please order: 1 x M22-DDL-W-RMQ\_Silver\_xxxxxx.zip-RMQ\_Silver\_xxxxxx.zip

- Key-operated button, 2 positions, Individual lock mechanism no. MS1, individual symbol

Basic type: M22-WRS\*-MS\*-\*

WRS\*: \* = Number of positions,

MS\*: \* = number of individual lock mechanism

-.\*: \* = File name assigned by Labeleditor

Please order: 1 x M22-WRS2-MS1-RMQ\_Silver\_xxxxxx.zip



ATEX = ATmosphere Explosible (explosive atmosphere)

Eaton supplies devices from the RMQ-Titan and FAK range in compliance with **ATEX Directive 94/9/EC** (binding as of 06/2003). The switches are approved for device group II, the application "everything, except for mining" and for category 3 (normal safety). The approval has the test number BVS 06 ATEX E023U, BVS 06 ATEX E024X. The housings, pushbutton actuators, indicator lights, and foot and palm switches have the equipment code II3D IP5X T85°C.

According to **Directive 1999/92/EC** for the operator (binding as of 06/2006), approved devices with test number BVS 06 ATEX E023U, and BVS 06 ATEX E024 may be used in dust-laden areas, Zone 22, Category 3. The devices with surface-mounting enclosures with ATEX approval are used in dust-laden/hazardous areas, such as the following: mills, metal grinding works, wood processing works, cement works, aluminum industry, foodstuffs industry, grain storage and processing, and agriculture.

### ATEX ordering examples:

- M22 complete unit  
M22-COMBINATION-\* User-definable customer ID; up to 10 characters  
→ Page 2/6

- M22-I1-ATEX ATEX housing → Page 2/45
- M22-D-S Pushbutton actuator → Page 2/17
- M22-KC10 Contact (N/O) → Page 2/31
- M22-KC01 Contact (NC) → Page 2/31

- M22 front element  
M22-COMBINATION-\* User-definable customer ID; up to 10 characters  
→ Page 2/6

- M22-D-S Pushbutton actuator → Page 2/17
- M22-ATEX ATEX complement suffix → Page 2/51

- FAK complete unit  
FAK-COMBINATION-\* User-definable customer ID; up to 10 characters  
→ Page 2/78

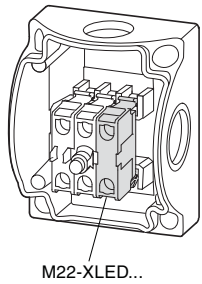
- FAK-ATEX ATEX accessory → Page 2/78
- FAK-IU Enclosure base → Page 2/78
- FAK-S Enclosure top → Page 2/78
- M22-KC10 Normally open contact (N/O) → Page 2/31
- M22-KC10 Normally closed contact → Page 2/31

Engineering

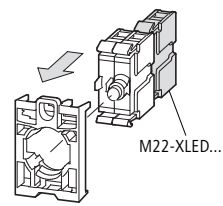
LED series resistor elements

M22-XLED

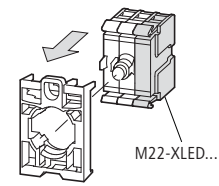
Surface mounting enclosure



Flush mounting at the rear

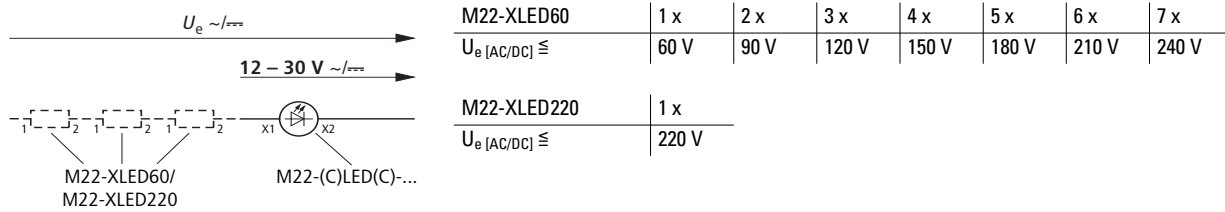


Flush mounting at the side



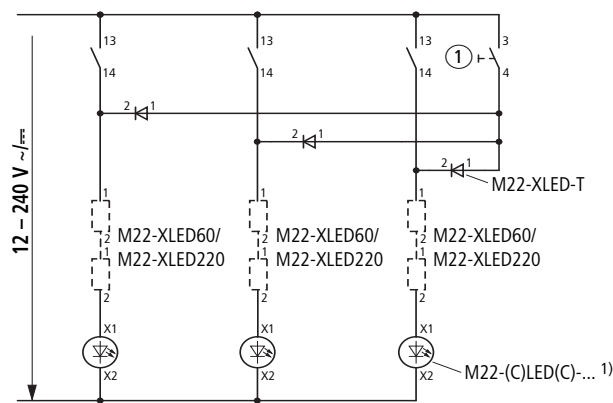
LED resistor element

M22-XLED60/M22-XLED220



LED test element

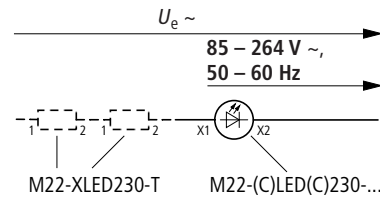
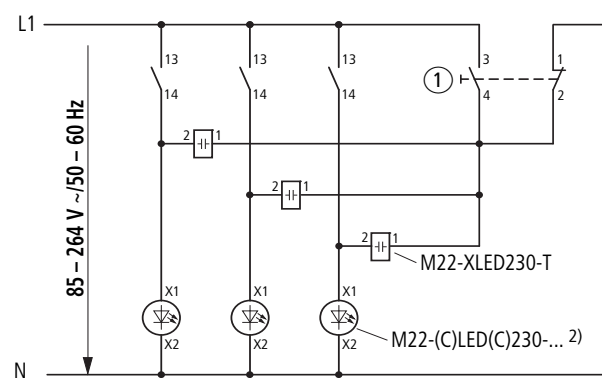
M22-XLED-T



① Test button

<sup>1)</sup> Only for 12 - 30 V elements

M22-XLED230-T



M22-XLED230-T	1 x	2 x
$U_e \leq$	400 V~	500 V~

① Test button

<sup>2)</sup> Only for 85 - 264 V elements





## Technical data

			Contact elements	Double-contact elements	LED-elements	Illuminated pushbutton actuators, Pushbutton, Mushroom-headed pushbuttons momentary	Double actuators	Selector switch actuators, Illuminated selector switch actuators
<b>General</b>								
Standards			IEC/EN 60947 VDE 0660					
Lifespan, mechanical	Switch operations	x 10 <sup>6</sup>	5	–	–	5	0.2	0.1
Operating frequency	Switch operations/h		≤ 3600	≤ 3600	–	≤ 3600	≤ 3600	≤ 2000
Actuating force		N	5	10	–	5	5	–
Operating torque (screw terminals)		Nm	0.8	–	0.8	–	–	0.3
Protection type (IEC/EN 60529)			IP20	IP20	IP20	IP67, IP69K	IP66	IP66
Climatic proofing			Damp heat, constant as per IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30					
Ambient temperature								
Open		°C	-25 - +70	-25 - +70	-25 - +70	-25 - +70	-25 - +70	-25 - +70
Mounting position			Any	Any	Any	Any	Any	Any
Mechanical shock resistance to IEC 60068-2-27		g	30	30	30	30	30	30
Shock duration 11 ms, half-sinusoidal								
Terminal capacity								
Solid		mm <sup>2</sup>	0.75 - 2.5	0.5 - 1.5	0.75 - 2.5	–	–	–
Stranded		mm <sup>2</sup>	0.5 - 2.5	0.5 - 1.5	0.5 - 2.5	–	–	–
Flexible with ferrule		mm <sup>2</sup>		0.5 - 1.0	–	–	–	–
<b>Contacts</b>								
Rated impulse withstand voltage	U <sub>imp</sub>	V AC	6000	4000	6000	–	–	–
Rated insulation voltage	U <sub>i</sub>	V	500	250	500	–	–	–
Overvoltage category/degree of pollution			III/3	III/3	III/3	–	–	–
Control circuit reliability								
At 24 V DC/5 mA	H <sub>F</sub>	Fault probability	< 10 <sup>-7</sup> (i.e. 1 failure to 10 <sup>7</sup> operations)	–	–	–	–	–
At 5 V DC/1 mA	H <sub>F</sub>	Fault probability	< 5 × 10 <sup>-6</sup> (i.e. 1 failure to 5 × 10 <sup>6</sup> operations)	–	–	–	–	–
Max. short-circuit protective device								
Fuseless		Part no.	PKZM0-10/FAZ-B6/1	PKZM0-10/FAZ-B6/1	–	–	–	–
Fuse	gG/gL	A	10	10	–	–	–	–
<b>Switching capacity</b>								
Rated operation current								
AC-15								
115 V	I <sub>e</sub>	A	6	6	–	–	–	–
230 V	I <sub>e</sub>	A	6	6	–	–	–	–
400 V	I <sub>e</sub>	A	4	–	–	–	–	–
500 V	I <sub>e</sub>	A	2	–	–	–	–	–
DC-13								
24 V	I <sub>e</sub>	A	3	3	–	–	–	–
42 V	I <sub>e</sub>	A	1.7	–	–	–	–	–
60 V	I <sub>e</sub>	A	1.2	–	–	–	–	–
110 V	I <sub>e</sub>	A	0.8	0.6	–	–	–	–
220 V	I <sub>e</sub>	A	0.3	0.3	–	–	–	–
Lifespan, electrical								
AC-15								
230 V/0.5 A	Switch operations	x 10 <sup>6</sup>	1.6	–	–	–	–	–
230 V/1.0 A	Switch operations	x 10 <sup>6</sup>	1	–	–	–	–	–
230 V/3.0 A	Switch operations	x 10 <sup>6</sup>	0.7	–	–	–	–	–
DC-13								
12 V/2.8 A	Switch operations	x 10 <sup>6</sup>	1.2	–	–	–	–	–





			Key-operated buttons	Indicator light, Compact acoustic device, Compact indicator light, Potentiometer	Illuminated push-button actuators, Pushbutton actuators, Mushroom-headed pushbuttons maintained	Emergency stop pushbuttons, emergency switching-off pushbuttons actuators
<b>General</b>						
Standards			IEC/EN 60947 VDE 0660	IEC/EN 60947 VDE 0660	IEC/EN 60947 VDE 0660	IEC/EN 60947 VDE 0660
Lifespan, mechanical	Operations	x 10 <sup>6</sup>	0.1	–	1	0.1
Operating frequency	Operations/h		≤ 100	–	≤ 1800	≤ 600
Actuating force		N	–	–	5	50
Operating torque		Nm	0.5	–	–	–
Protection type (IEC/EN 60529)			IP66	Indicator light compact: IP67, IP69K Acoustic device, compact: IP40 Potentiometer: IP66	IP67, IP69K	IP67, IP69K
Climatic proofing			Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30			
Ambient temperature						
Open		°C	-25 - +70	-25 - +70	-25 - +70	-25 - +70
Mounting position			Any	Any	Any	Any
Mechanical shock resistance to IEC 60068-2-27 Shock duration 11 ms, half-sinusoidal		g	30	30	30	50
Terminal capacity						
Solid		mm <sup>2</sup>	–	0.5 - 1.5	–	–
Stranded		mm <sup>2</sup>	–	0.5 - 1.5	–	–
<b>Contacts</b>						
Rated impulse withstand voltage	U <sub>imp</sub>	V AC	–	4000	–	–
Rated insulation voltage	U <sub>i</sub>	V	–	250	–	–
Overvoltage category/pollution degree			–	III/3	–	–

## M22-AS-Interface..., RMQ-..., AS-Interface



		AS-Interface connection for RMQ-Titan RMQ-M1C-ASI	Adapter element for RMQ-Titan M22-ASI	M22-ASI-C
<b>General</b>				
Standards		EN 50081-1 EN 50082-1	IEC/EN 60947, DIN EN 50 295	IEC/EN 60947, DIN EN 50 295
Radio interference suppression		EN 55011, EN 55022	EN 55011, EN 55022	EN 55011, EN 55022
Limit value class		A	–	–
Protection type		IP20	IP20	IP00
Climatic proofing		Damp heat, constant, to IEC 60068-2-78; Damp heat, cyclic, to IEC 60068-2-30		
Ambient temperature				
Open	°C	+25 - +55	+25 - +55	+25 - +55
Shock resistance, shock duration 11 ms	g	> 30	> 30	> 30
Vibrations IEC 60068-2-27 (amplitude 1 mm)	Hz	10 - 55	–	–
Dimensions	mm	92 x 46 x 30	–	–
Weight	kg	0.1	–	–
Fixing		Front fixing for RMQ-Titan	Front fixing for RMQ-Titan	Base fixing for RMQ-Titan
Mounting position		Any	Any	Any
<b>Power supply</b>				
Rated voltage to AS-Interface Specification	V DC	26.5 - 31.6	26.5 - 31.6	26.5 - 31.6
Terminal type		–	Yellow plug-in terminal as insulation piercing terminal	2 cables on board
Current supply		Completely from the AS-Interface cable	Completely from the AS-Interface cable	Completely from the AS-Interface cable
Addressing		Via AS-Interface line connection	Via AS-Interface line connection	Via AS-Interface line connection
Total power consumption of the AS interface	mA	–	≤ 40	≤ 40
AS-Interface		Protected against polarity reversal	Protected against polarity reversal	Protected against polarity reversal
Rated operational current at full load	mA	120	–	–
Rated operational current when idle (no I, Q set)	mA	normally 30	–	–
LED status indication		AS-Interface voltage: green LED	AS-Interface power line: green LED on element back AS-Interface ERROR, failure of AS-Interface master: red LED on element back	AS-Interface line POWER: green LED on card AS-Interface ERROR, failure of AS-Interface master: red LED on card
<b>Inputs</b>				
Inputs, protected against short-circuit	Number	4 (1 internal + 3 external)	2 (normally 22 V/5 mA)	2 (normally 22 V/5 mA)
Voltage range	V DC	24 - 30	–	–
Rated current per input	mA	normally 3.5	–	–
Switching level, high signal	V	≥ 15	–	–
Low signal	mA	–	–	–
Length of connecting cables	cm	≤ 200	–	–
<b>Outputs</b>				
Outputs, protected against short-circuit	Number	4 (1 internal + 3 external)	1 (normally 19 V/8 mA)	1 (normally 19 V/8 mA)
Voltage range	V DC	24 V DC (+10/-15%)	–	–
Max. current carrying capacity				
All outputs		–	–	–
Σ 3 external outputs		60	–	–
Length of connecting cables	cm	≤ 200	–	–
Profile		S-7.0	S-3.A.E	S-3.A.E
Specification		2.0	2.1	2.1
Addresses	Number	31	62	62



	M22-ASI-S	M22-ASI-CS
<b>Emergency-stop connections</b>		
Connection to AS-Interface cable	Yellow plug-in terminal as insulation piercing terminal	2 cables on board
Energy supply	Completely from the AS-Interface cable 26.5 - 31.6 V DC	Completely from the AS-Interface, cable 26.5 - 31.6 V DC
Fixing	RMQ-Titan front fixing	RMQ-Titan base fixing
Addressing	Via AS-Interface cable	Via AS-Interface cable
Max. total current	mA 45	45
Ambient temperature	°C -25 – +55	-25 – +55
Mechanical shock resistance	30 g/11 ms to IEC 60068-2-27	30 g/11 ms to IEC 60068-2-27
Protection type	IP20	IP00
Climatic proofing	Damp heat, constant, to IEC 60068-2-78; Damp heat, cyclical, to IEC 60068-2-30	Damp heat, constant, to IEC 60068-2-78; Damp heat, cyclical, to IEC 60068-2-30
Mounting position	Any	Any
Standards	EN 50178 EN 50295	EN 50178 EN 50295
Inputs	Dual-channel input (22 V/5 mA) (modulated with code sequence) (2 RMQ-Titan M22-K01 NC contact elements)	Dual-channel input (22 V/5 mA) (modulated with code sequence) (2 RMQ-Titan M22-K01 NC contact elements)
Outputs	1 output, normally 19 V/ 8 mA, protected against short-circuit	1 output, normally 19 V/ 8 mA, protected against short-circuit
<b>Status indicators</b>		
Power AS-Interface cable	Green LED on rear	Green LED on rear
Error AS-Interface, failure of AS-Interface master	Red LED on rear	Red LED on rear
Profile	S -7.B.E	S -7.B.E

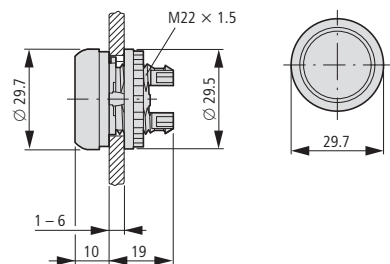
UL-File No. 29184	Pilot Duty	General Use	Terminal capacity
<b>Rating data for approved types to UL/CSA 1)</b>			
RMQ16 contact elements			
E10	C 300, Q 300		Cu cable min. AWG 18, max. AWG 14
E 01	C 300, R 300		
RMQ-Titan contact elements			
M22-K... M22-CK...	A 600, Q 300, > 300 V AC same polarity	10 A – 600 V AC 1 A – 250 V DC	2 x 14 - 18 AWG 2 x 12 - 22 AWG
RMQ-Titan LED elements			
M22-LED... M22-CLED...			2 x 14 - 18 AWG 2 x 12 - 22 AWG
M22-LC(H) M22-AMC			2 x 16 - 20 AWG 2 x 16 - 20 AWG

		UL 508 requirements UL 4X	NEMA recommendation NEMA 13
<b>Protection types, RMQ-Titan</b>			
All front elements	M22(S)-...	●	●
Legend plates	M22S-ST...	●	●
Emergency switching off labels	M22-XAK... M22-XZK... M22-XBK... M22-XYK...	● ● ● ●	● ● ● ●
Foot and palm switches	FAK-...	●	●
Signal towers	SL-...	●	—



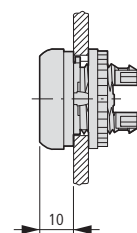
**Dimensions**

**Actuating and indicator elements**

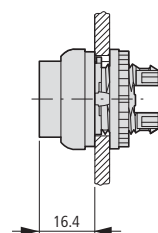


**RMQ-Titan pushbutton actuators**

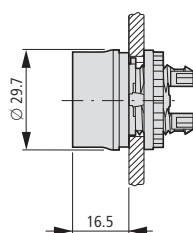
M22...-D-...



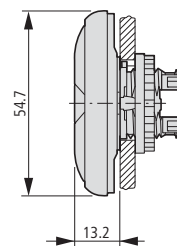
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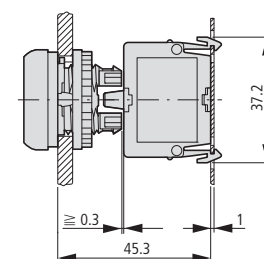
M22-DG(L)...



M22...-DD...

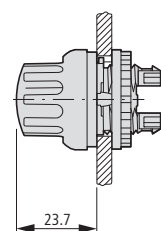


M22-D pushbuttons in base fixing

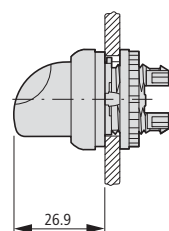


**RMQ-Titan selector switch actuators**

M22-W...



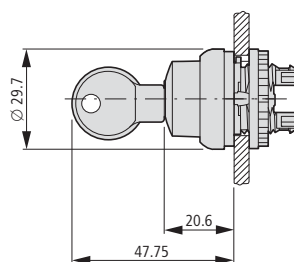
M22...-WL...



**RMQ-Titan key-operated button**

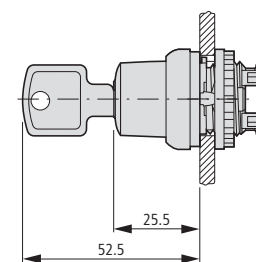
Individual lock mechanism

M22...-W(R)S...



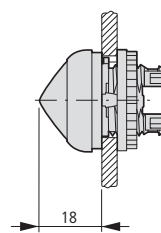
**Master key systems**

M22...-W...-S-SA...

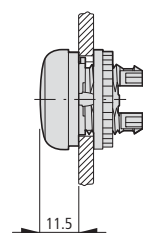


**RMQ-Titan indicator light**

M22-LH-...

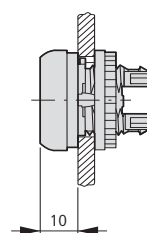


M22-L...

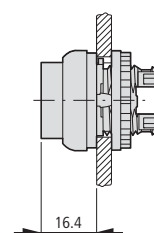


**RMQ-Titan illuminated pushbutton actuators**

M22...-DL-...

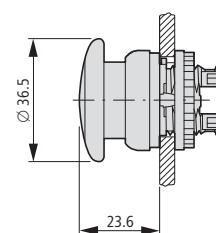


M22...-DLH...



**RMQ-Titan mushroom-headed pushbutton**

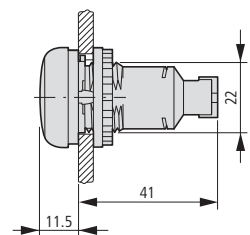
M22...-DP-...



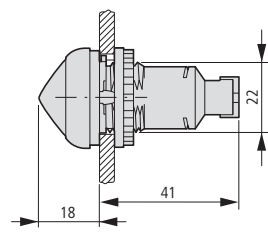
**Indicator light, compact acoustic device, compact**

M22-LC-...

M22-AM...

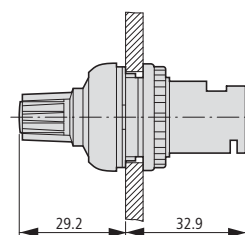


M22-LCH-...



**Potentiometer**

M22...-R...K





Emergency stop pushbuttons/ emergency switching off pushbutton actuators

Mushroom-shaped

M22-PV...

M22S-PV...

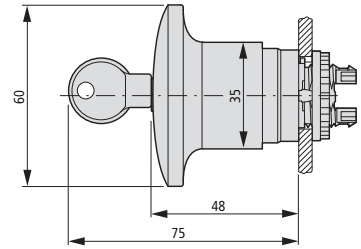
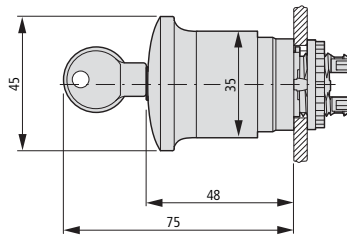
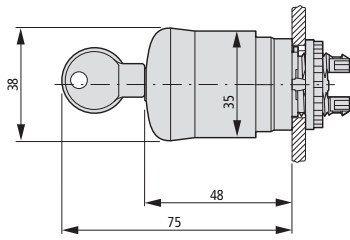
M22-PVL...

M22-PVS...

Palm-shaped

M22-PV...

M22-PV...60...



Front fixing (Construction type: Style Flat)

Fixing adapters

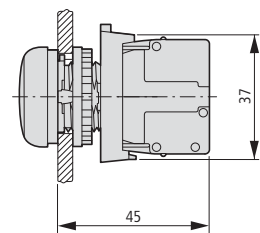
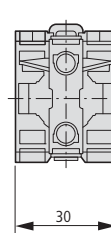
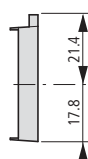
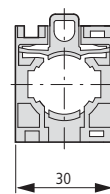
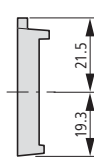
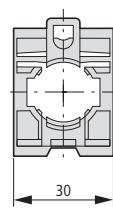
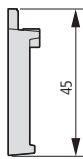
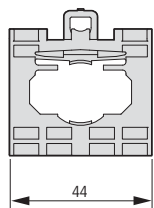
M22-A...

M22-A

Centring adapter

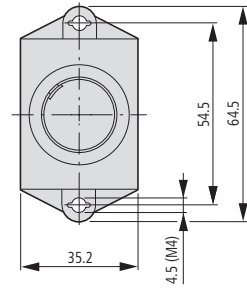
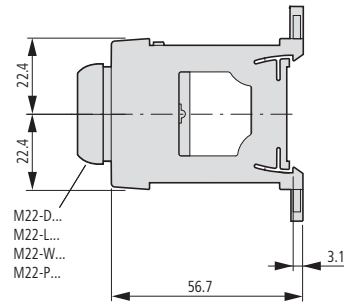
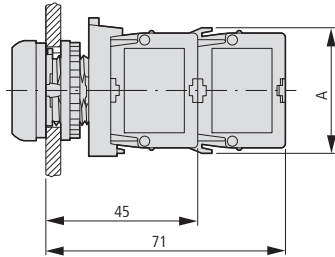
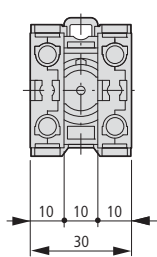
M22-ZA

RMQ-Titan indicator light



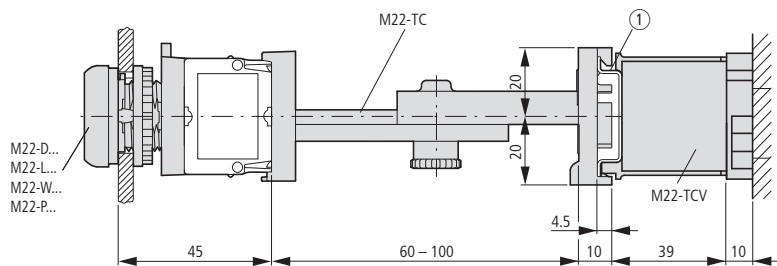
Pushbutton with M22-(C)K...  
Pushbutton with M22-(C) LED... + M22-XLED...

IVS top-hat rail adapter



	1 x M22-K...	2 x M22-K...	1 x M22-CK...	2 x M22-CK...
A	37.2	37.2	39	39

Pushbuttons, indicator lights with M22-TC telescopic clip and M22-TCV extension

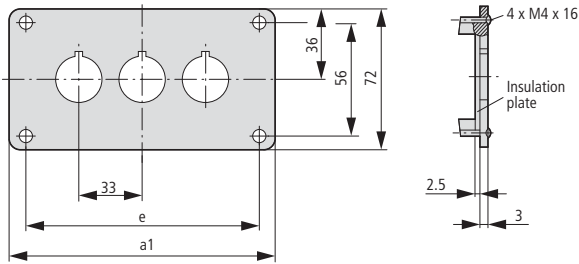


① Top-hat rail to IEC/EN 60715



**Front fixing (Style Flat)**

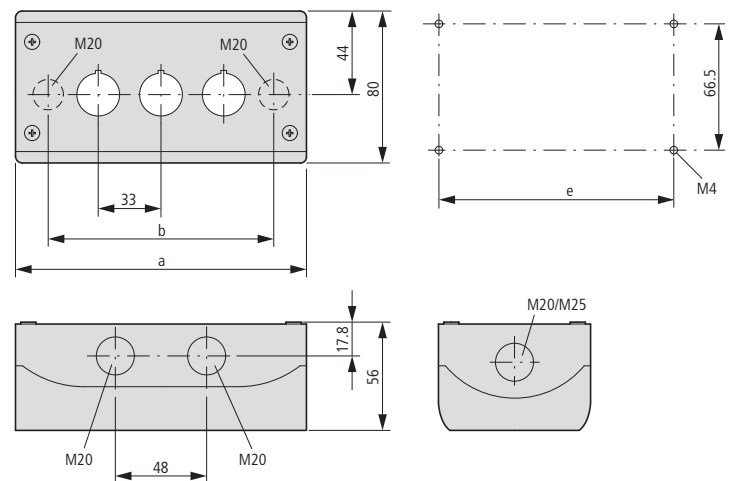
RMQ-Titan mounting panel  
M22-E...



Part no.	a1	e
M22-E(Y)1	72	56
M22-E2	105	89
M22-E3	138	122
M22-E4	171	155
M22-E5	204	188
M22-E6	237	221

**Base fixing (Construction type: Style mounting)**

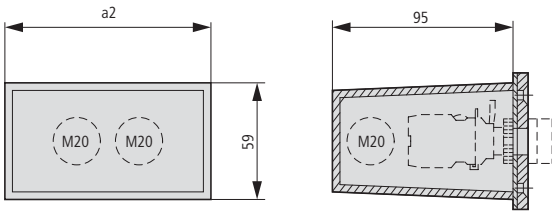
RMQ-Titan surface mounting enclosure  
M22-I...



Part no.	Mounting locations	a	b	e	Cable entries
M22-I(Y)1	1	72	42.6	58.5	2 × M16 3 × M20 2 × M25
M22-I2	2	120	85.6	106.5	2 × M20 3 × M20 2 × M25
M22-I3	3	153	118.6	139.5	2 × M20 2 × M25 4 × M20
M22-I4	4	186	151.6	172.5	2 × M20 2 × M25 4 × M20
M22-I6	6	252	217.6	238.5	2 × M20 2 × M25 4 × M20

**Shrouds**

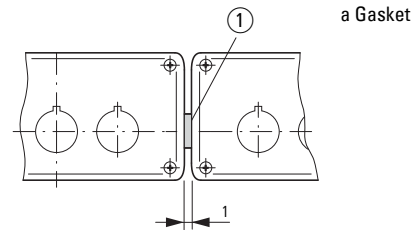
M22-H...



Part no.	a2	Cable entries	Construction type
M22-H1	42	3 × M20	One-piece
M22-H2	75	4 × M20	
M22-H3	108	4 × M20	
M22-H4	141	4 × M20	Split
M22-H5	174	5 × M20	
M22-HE6	207	6 × M20	

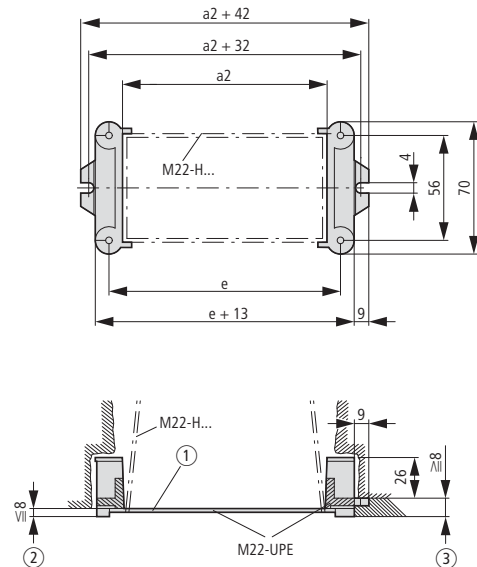
**Combination of surface mounting enclosures**

M22-XI



**Shroud with plaster keys**

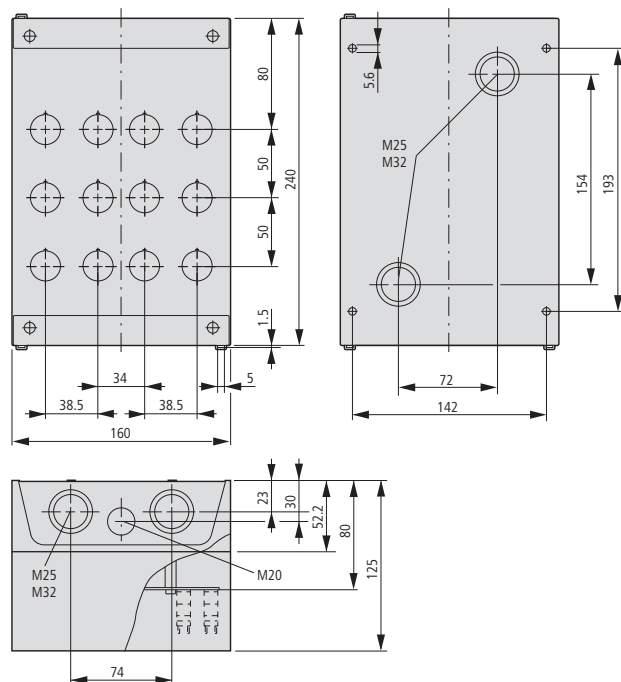
M22-UPE



- ① Box for closing off when plastering
- ② Plaster thickness less than 8 mm
- ③ Plaster thickness more than 8 mm

**Surface mounting enclosure for 12 mounting locations**

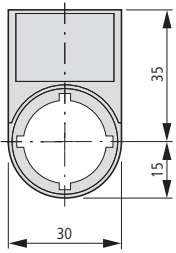
M22-I12



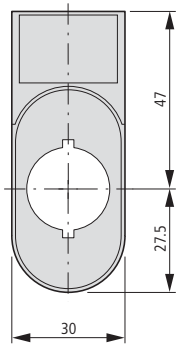


**Label mounts**

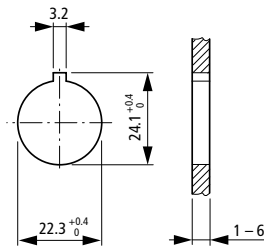
M22S-ST...



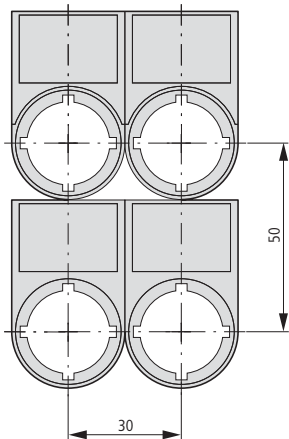
M22S-STDD-X



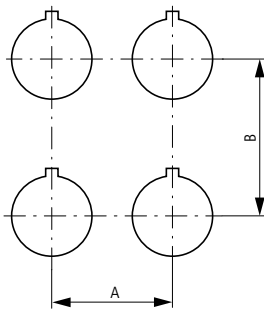
**Mounting hole with lug slot**



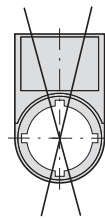
**Grid dimension to IEC/EN 60947**



**Grid dimension for various combinations**

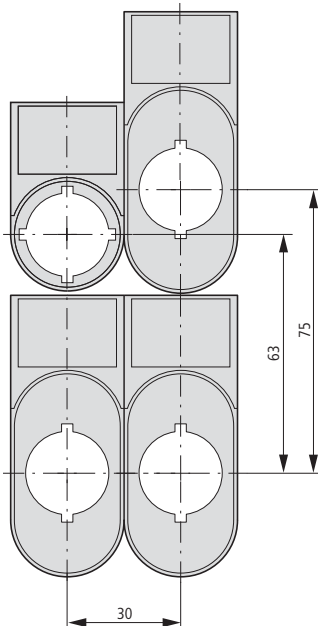


**Actuator diaphragm cannot be combined with label mount**

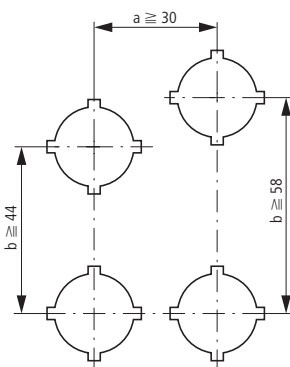


Part no.	A ≙ mm	B ≙ mm
M22(N/O)-...(IEC/EN 60947)	30	50
RMQ-Silver min.	30	40
M22-D... + M22-T-D	33	40
M22-D(R)P...	38	40
M22-PV...	45	45
M22-PV...45	55	55
M22-PV...60	70	70
M22-PV(L) + M22-PL-PV	48	56
M22-PV(L)(N/O...) + M22-D...	33	40
M22-DDL...	30	55
M22-DDL... + M22-T-DD	33	58
M22-ST...	30	50
M22-STDD...	30	75
M22-CK...	30	45
M22-CLED...	30	45
M22-XAK...	90	90
M22-XZK...	33	52
M22-XBK...	60	60
M22-XYK...	50	50
M22-D4	60	60
M22-WVR...4	50	50
M22-W...J4	100	100

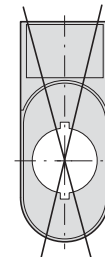
**Grid dimension for M22-DD...**



**Grid dimension for M22-DDL**



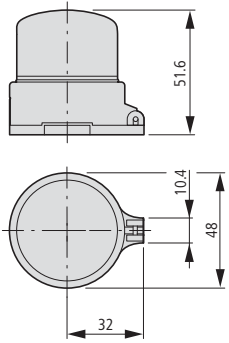
**Pushbutton diaphragm M22-T-DD  
Actuator diaphragm cannot be combined with label mount**





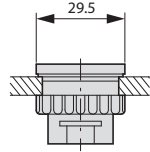
**Emergency switching off sealable shroud**

M22-PL-PV



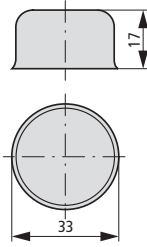
**Blanking plugs**

M22...B-...

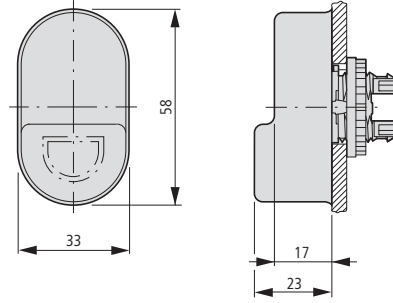


**Pushbutton diaphragm**

M22-T-D

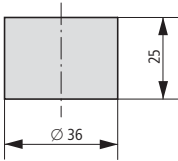


M22-T-D

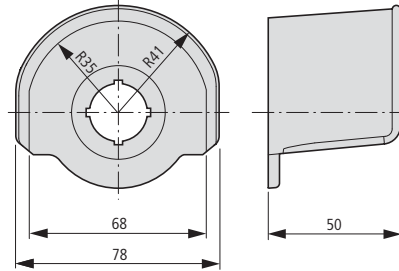


**Guard-ring**

M22-XGWK

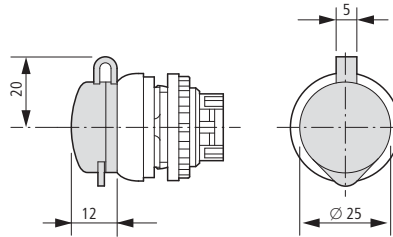


M22-XGPV



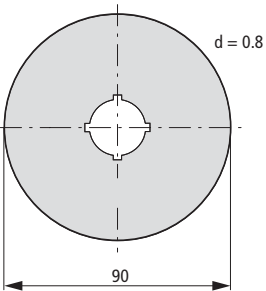
**Protective diaphragm**

M22-XWS

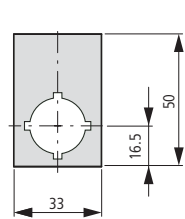


**Emergency stop labels**

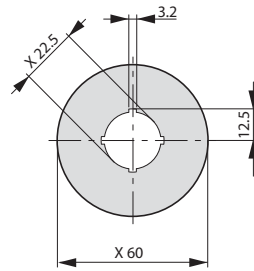
M22-XAK...



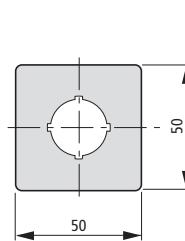
M22-X(Y)ZK...



M22-XBK-...

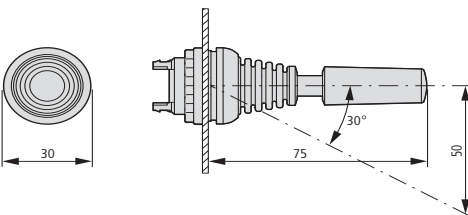


M22-XYK-...



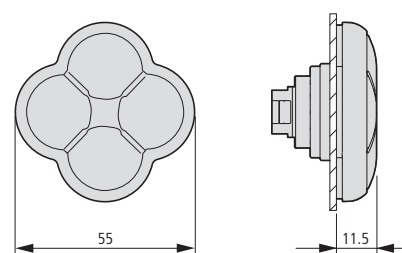
**Joystick**

M22...-W...J...



**4-way pushbutton**

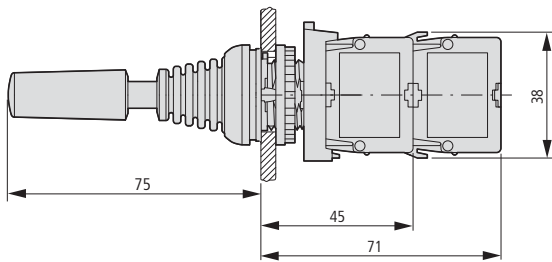
M22-D...4-...





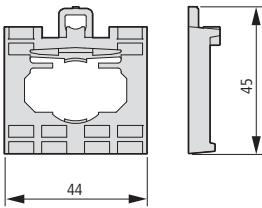
## Joystick

M22-WJ..., M22-WRJ...

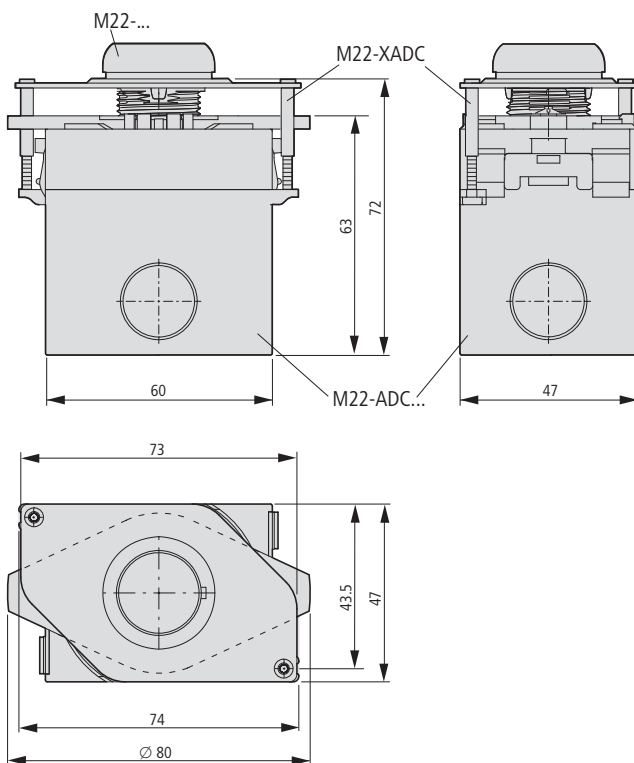


## Fixing adapter

M22-A4



## Dust cover









4-way selector switch actuators	1	Planning and ordering help, SWD?Assist	14	Function element with 2 positions for base fixing	26
→ Page 2/20		→ Features		→ Page 1/10	
Labels with label mounts	2	M22 surface mounting enclosure	15	LED element for base fixing	27
→ Page 2/25		→ Page 2/45		→ Page 1/11	
4-way adapter	3	PCB for built-in surface mounting enclosure	16	Bezels	28
→ Page 1/11		→ Page 1/11		→ Page 2/48	
Fixing adapters	4	Enclosure bushing for round cable	17	Double pushbutton actuators	29
→ Page 1/11		→ Page 2/46		→ Page 2/16	
Function element with 3 positions for front fixing	5	Enclosure bushing plug/socket	18	Labels for label mounts	30
→ Page 1/10		→ Page 1/18		→ Page 2/35	
LED element for front fixing	6	Plug connectors for SWD round cables	19	Indicator lights	32
→ Page 1/11		→ Page 1/18		→ Page 2/26	
M22 contact elements	7	SWD round cable	20	Key-operated buttons	33
→ Page 2/31		→ Page 1/18		→ Page 2/21	
Function element with 2 positions and LED for front fixing	8	Contacts for base fixing	21	Selector switch actuators	34
→ Page 1/10		→ Page 2/31		→ Page 2/20	
Function element with 3 positions and LED for front fixing	9	Link for base slots	22	Pushbutton actuators	36
→ Page 1/10		→ Page 1/11		→ Page 2/17	
Link for external device plug	10	Function element with 3 positions and LED for base fixing	23	Button plates/Button lenses	35
→ Page 1/17		→ Page 1/10		→ Page 2/36	
Front fixing contacts	11	Function element with 3 positions for base fixing	24	Label mounts	31, 37
→ Page 2/31		→ Page 1/10		→ Page 2/35	
SWD external device plug	12	Function element with 2 positions and LED for base fixing	25	Emergency switching off pushbutton	38
→ Page 1/17		→ Page 1/10		→ Page 2/7	
SWD ribbon flat cable	13			Joystick	39
→ Page 1/17				→ Page 2/24	
				4-way pushbutton	40
				→ Page 2/24	



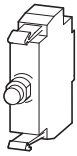
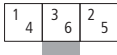





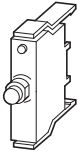
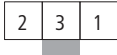





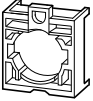
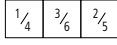

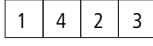
## Features


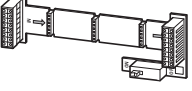

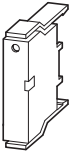



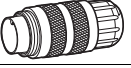
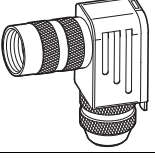
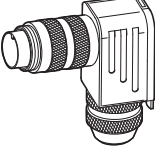
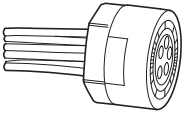

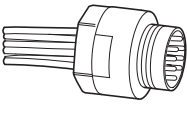

- SWD-RMQ connection for front fixing → Page 1/10
  - Adaption with standard adapter M22-A or M22-SWD-A4 for 4-way pushbutton
  - Combination with standard pilot devices of the M22 series.
  - Types with one or two change-over contacts and with/without integrated LED element
  - SmartWire-Darwin diagnostics LED for signalling the communication status of the function element
  - Connection to SmartWire-Darwin flat band cable via external device plug.
- Link for external device plug → Page 1/11
  - Connection to SmartWire-Darwin external device plug.
  - Suitable for the bridging of already adapted SmartWire-Darwin external device plugs (e.g. as a placeholder)
- Planning and ordering help (SWD-Assist)
  - Free download at: <http://downloadcenter.moeller.net>.
  - Easy generation of applications with the system SmartWire-Darwin.
  - Integrated function for the generation of ordering lists.
  - Integrated validity check.
- Surface mounting enclosure with PCB → Page 1/11
  - Connection of SmartWire-Darwin RMQ elements for base fixing.
  - Type with 1, 2, 3, 4 and 6 slots
  - Bridging of free slots with links for base fixing.
  - Integrated switchable terminating resistor.
- Housing bushing socket → Page 1/18
  - Use for M22 surface mounting enclosure or control panel.
  - Type plug/socket.
  - Prefabricated signal cable with ferrules for connection to PCB for surface mounting enclosure.
- SWD-RMQ connection for base fixing → Page 1/10
  - Use with surface mounting enclosure for M22 control circuit devices.
  - Combination with standard pilot devices of the M22 series.
  - Types with one or two change-over contacts and with/without integrated LED element
  - SmartWire-Darwin diagnostics LED for signalling of the communication status of the function element.
  - Connection to SmartWire-Darwin via PCB for built-in enclosure.



	Number of contacts	Circuit symbol	Contact travel diagram, stroke in connection with front element	Configuration	Colour LED	Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America	
<b>Function elements</b>										
<b>Front fixing</b>										
	1				without LED	M22-SWD-K11 115964		20 off	NA Certification Request filed for UL and CSA	
	2				without LED	M22-SWD-K22 115965		10 off		
<b>Base fixing</b>										
	1				without LED	M22-SWD-KC11 115995		20 off		
	2				without LED	M22-SWD-KC22 115996		10 off		
<b>Front fixing</b>										
	1				-	M22-SWD-K11LED-W 115972		20 off		
	1				○	M22-SWD-K11LED-B 115973				
	1				●	M22-SWD-K11LED-G 115974				
	1				●	M22-SWD-K11LED-R 115975				
	2				-	M22-SWD-K22LED-W 115978		10 off		
	2				○	M22-SWD-K22LED-B 115979				
	2				●	M22-SWD-K22LED-G 115980				
	2				●	M22-SWD-K22LED-R 115981				
<b>Base fixing</b>										
	1				-	M22-SWD-K11LEDC-W 116003		20 off		
	1				○	M22-SWD-K11LEDC-B 116004				
	1				●	M22-SWD-K11LEDC-G 116005				
	1				●	M22-SWD-K11LEDC-R 116006				
	2				-	M22-SWD-K22LEDC-W 116009		10 off		
	2				○	M22-SWD-K22LEDC-B 116010				
	2				●	M22-SWD-K22LEDC-G 116011				
	2				●	M22-SWD-K22LEDC-R 116012				



		Configuration	Colour LED	Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America  
<b>LED elements</b>							
<b>Front fixing</b>							
			   	<b>M22-SWD-LED-W</b> 115966			NA Certification Request filed for UL and CSA
				<b>M22-SWD-LED-B</b> 115967			
				<b>M22-SWD-LED-G</b> 115968			
				<b>M22-SWD-LED-R</b> 115969			
<b>Base fixing</b>							
			   	<b>M22-SWD-LEDC-W</b> 115997			NA Certification Request filed for UL and CSA
				<b>M22-SWD-LEDC-B</b> 115998			
				<b>M22-SWD-LEDC-G</b> 115999			
				<b>M22-SWD-LEDC-R</b> 116000			
<b>Fixing adapters</b>							
<b>Front fixing</b>							
	For 1 function element M22-SWD-K... or LED element M22-SWD-LED... In addition 1 or 2 contact elements M22-K... possible Sequence number on fixing adapter		-	<b>M22-A</b> 216374			UL/CSA certification not required
	For 2 function elements M22-SWD-K22... For use with M22-WR4, -WRJ4, -D4 in conjunction with M22-(SWD)-K						

Mounting locations Number	Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America 
<b>Printed circuit boards</b>				
PCBs for surface mounting enclosure M22-I.. for mounting base function elements M22-SWD...K Integrated, connectable SWD network terminator.				
 Number of mounting locations : 1	<b>M22-SWD-I1-LP01</b> 115990		1 off 	NA Certification Request filed for UL and CSA
Number of mounting locations : 2	<b>M22-SWD-I2-LP01</b> 115991			
Number of mounting locations : 3	<b>M22-SWD-I3-LP01</b> 115992			
Number of mounting locations : 4	<b>M22-SWD-I4-LP01</b> 115993			
Number of mounting locations : 6	<b>M22-SWD-I6-LP01</b> 115994			
<b>Bridge</b>				
Bridging of open mounting locations of device plug or M22-SWD-I PCB				
 Link for unused mounting locations of M22-SWD-I...LP (base fixing)	<b>M22-SWD-SEL8-10</b> 116698		5 off 	NA Certification Request filed for UL and CSA
<b>Connectors for SWD round cables</b>				
 8-pole socket, straight	<b>SWD4-SF8-67</b> 116033		1 off 	NA Certification Request filed for UL and CSA
 8-pole plug, straight	<b>SWD4-SM8-67</b> 116034			
 8-pole socket, 90° angled	<b>SWD4-SF8-67W</b> 116035			
 8-pole plug, 90° angled	<b>SWD4-SM8-67W</b> 116036			
<b>Housing bushing socket</b>				
For flushmounting in surface mounting enclosure M22-I... 8-pole socket/ plug, IP67, for connection to SWD4-S(M,F)-67... 8 prefabricated cables for connection to PCB M22-SWD-I...				
 8-pole socket, M20	<b>SWD4-SF8-20</b> 116031		1 off 	NA Certification Request filed for UL and CSA
 8-pole plug, M20	<b>SWD4-SM8-20</b> 116032		1 off 	





## Technical data

			M22-SWD-K11	M22-SWD-KC11	M22-SWD-LED-...
<b>General</b>					
Standards			IEC/EN 61131-2 EN 50178		
Dimensions (W x H x D)	mm		12 X 42 X 39	12 X 45 X 37	10 X 42 X 45
Weight	g		10	10	10
Mounting position			Any		
<b>Ambient mechanical conditions</b>					
Protection type (IEC/EN 60529)			IP20	IP20	IP20
Vibrations (IEC/EN 61131-2:2008)					
Constant amplitude 3.5 mm	Hz		5 ... 8.4	5 ... 8.4	5 ... 8.4
Constant acceleration, 1 g	Hz		8.4 ... 150	8.4 ... 150	8.4 ... 150
Mechanical shock resistance (IEC/EN 60068-2-27)	Shocks		9	9	9
Drop to IEC/EN 60068-2-31	Drop height	mm	50	50	50
Free fall, packaged (IEC/EN 60068-2-32)		m	0.3	0.3	0.3
<b>Electromagnetic compatibility (EMC)</b>					
Overvoltage category			Not applicable		
Pollution degree			2	2	2
Electrostatic discharge (IEC/EN 61131-2:2008)					
Air discharge (Level 3)	kV		8	8	8
Contact discharge (Level 2)	kV		4	4	4
Electromagnetic fields (IEC/EN 61131-2:2008)					
80-1000 MHz	V/m		10	10	10
1.4 - 2 GHz	V/m		3	3	3
2 - 2.7 GHz	V/m		1	1	1
Radio interference suppression (SmartWire-Darwin)			EN 55011 Class A		
Burst (IEC/EN 61131-2:2008, Level 3)					
Supply cables	kV		2	2	2
SmartWire-Darwin cables	kV		1	1	1
Radiated RFI (IEC/EN 61131-2:2008, Level 3)	V		10	10	10
<b>Ambient climatic conditions</b>					
Operating ambient temperature (IEC 60068-2)	°C		-30 ... +55	-30 ... +55	-30 ... +55
Condensation			Prevent with suitable measures		
Storage	°C		-40...80	-40...80	-40...80
Relative humidity, non-condensing (IEC/EN 60068-2-30)	%		9 ... 95	9 ... 95	9 ... 95
<b>SmartWire-Darwin network</b>					
Station type			SmartWire-Darwin station (slave)		
Baud rate setting			Automatic		
SmartWire-Darwin status LED			Green		
Connections			Plug, 8-pole		
Plug connectors			SWD4-8SF2-5	M22-SWD-I...LP	SWD4-8SF2-5
Number of mating cycles			50	50	50
<b>Function element</b>					
Contacts			1 change-over contact	1 change-over contact	-
Lifespan mechanical/electrical	Operations		1 X 10 <sup>6</sup>	1 X 10 <sup>6</sup>	-
LED display			No	No	Yes
Diagnostics			Yes	Yes	No
Fixing			Front fixing	Base fixing	Front fixing

## Notes

Maximum current consumption of SWD stations → chapter SmartWire-Darwin, page 19

M22-SWD-LEDC-...	M22-SWD-K11-LED-...	M22-SWD-K11LEDC-...	M22-SWD-K22	M22-SWD-KC22	M22-SWD-K22-LED-...	M22-SWD-K22LEDC-...
IEC/EN 61131-2 EN 50178						
10 X 45 X 42	12 X 42 X 45	12 X 45 X 42	17 X 42 X 39	17 X 45 X 37	17 X 42 X 45	17 X 45 X 42
10	10	10	14	14	14	14
Any						
IP20						
5 ... 8.4						
8.4 ... 150						
9						
50						
0.3						
Not applicable						
2						
8						
4						
10						
3						
1						
EN 55011 Class A						
2						
1						
10						
-30 ... +55						
Prevent with suitable measures						
-40...80						
9 ... 95						
SmartWire-Darwin station (slave)						
Automatic						
Green						
Plug, 8-pole						
M22-SWD-I...LP	SWD4-8SF2-5	M22-SWD-I...LP	SWD4-8SF2-5	M22-SWD-I...LP	SWD4-8SF2-5	M22-SWD-I...LP
50	50	50	50	50	50	50
-						
1 change-over contact						
1 X 10 <sup>6</sup>						
Yes						
No						
Base fixing						

			SWD4-RC8-10	SWD4-8SF2-5	SWD4-8SFF2-5
<b>General</b>					
Standards			IEC/EN 61131-2 EN 50178		
Dimensions (W x H x D)		mm	48.5 x 34.5 x 10	15 x 36.5 x 17.5	48.5 x 34.5 x 10
Weight		g	10	5.5	4.5
Mounting position			Any	Any	Any
<b>Ambient mechanical conditions</b>					
Protection type (IEC/EN 60529)			IP20	IP20	IP20
Vibrations (IEC/EN 61131-2:2008)					
Constant amplitude 3.5 mm		Hz	5 ... 8.4	5 ... 8.4	5 ... 8.4
Constant acceleration, 1 g		Hz	8.4 ... 150	8.4 ... 150	8.4 ... 150
Mechanical shock resistance (IEC/EN 60068-2-27) semi-sinusoidal 15 g/11 ms		Shocks	9	9	9
Drop to IEC/EN 60068-2-31	Drop height	mm	50	–	–
Free fall, packaged (IEC/EN 60068-2-32)		m	0.3	–	–
<b>Electromagnetic compatibility (EMC)</b>					
Overvoltage category			II	–	–
Pollution degree			2	–	–
Electrostatic discharge (IEC/EN 61131-2:2008)					
Air discharge (Level 3)		kV	8	–	8
Contact discharge (Level 2)		kV	4	–	4
Electromagnetic fields (IEC/EN 61131-2:2008)					
80-1000 MHz		V/m	10	–	–
1.4 - 2 GHz		V/m	3	–	–
2 - 2.7 GHz		V/m	1	–	–
Radio interference suppression (SmartWire-Darwin)			EN 55011 Class A	–	–
Burst (IEC/EN 61131-2:2008, Level 3)					
SmartWire-Darwin cables		kV	1	–	–
Radiated RFI (IEC/EN 61131-2:2008, Level 3)		V	10	–	–
<b>Ambient climatic conditions</b>					
Operating ambient temperature (IEC 60068-2)		°C	–25 ... +55	–25 ... +55	–25 ... +55
Condensation					
Storage		°C	–40...70	–40...70	–40...70
Relative humidity, non-condensing (IEC/EN 60068-2-30)		%	5 ... 95	5 ... 95	5 ... 95
<b>Connection options</b>					
SWD-In			Plug, 8-pole	Plug connector	Plug, 8-pole
Number of mating cycles			≥200	1	≥200
SWD-Out			–	Socket, 8-pole	Plug, 8-pole
Number of mating cycles			–	≥200	≥200

**Notes**

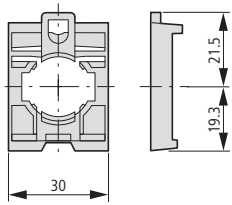
Maximum current consumption of SWD stations → chapter SmartWire-Darwin, page 19

	SWD4-SF8-20	SWD4-SM8-20	SWD4-8FRF-10	SWD4-SFL8-20	SWD4-SML8-20
<b>General</b>					
Standards	IEC/EN 61131-2 EN 50178				
Dimensions (W x H x D)	24 x 26 x 162	24 x 26 x 170	35 x 90 x 35	35 x 83 x 40	35 x 83 x 46
Weight	20	22.5	42	50	50
Mounting position	Any	Any	Any	Any	Any
<b>Ambient mechanical conditions</b>					
Protection type (IEC/EN 60529)	IP67	IP67	IP20	IP67	IP67
Vibrations (IEC/EN 61131-2:2008)					
Constant amplitude 3.5 mm			5 ... 8.4	5 ... 8.4	5 ... 8.4
Constant acceleration, 1 g			8.4 ... 150	8.4 ... 150	8.4 ... 150
Mechanical shock resistance (IEC/EN 60068-2-27) semi-sinusoidal 15 g/11 ms			9	9	9
Drop to IEC/EN 60068-2-31			–	–	–
Free fall, packaged (IEC/EN 60068-2-32)			–	–	–
<b>Electromagnetic compatibility (EMC)</b>					
Overvoltage category	–	–	–	–	–
Pollution degree	–	–	–	–	–
Electrostatic discharge (IEC/EN 61131-2:2008)					
Air discharge (Level 3)	–	–	8	8	8
Contact discharge (Level 2)	–	–	4	4	4
Electromagnetic fields (IEC/EN 61131-2:2008)					
80-1000 MHz	–	–	–	10	10
1.4 - 2 GHz	–	–	–	3	3
2 - 2.7 GHz	–	–	–	1	1
Radio interference suppression (SmartWire-Darwin)	–	–	–	–	–
Burst (IEC/EN 61131-2:2008, Level 3)					
SmartWire-Darwin cables	–	–	–	–	–
Radiated RFI (IEC/EN 61131-2:2008, Level 3)	–	–	–	10	10
<b>Ambient climatic conditions</b>					
Operating ambient temperature (IEC 60068-2)	–25 ... +55	–25 ... +55	–25 ... +55	–25 ... +55	–25 ... +55
Condensation					
Storage	–40...70	–40...70	–40...70	–40...70	–40...70
Relative humidity, non-condensing (IEC/EN 60068-2-30)	5 ... 95	5 ... 95	5 ... 95	5 ... 95	5 ... 95
<b>Connection options</b>					
SWD-In	–	Plug, 8-pole	Plug, 8-pole	Plug, 8-pole	Plug, 8-pole
Number of mating cycles	–	≥500	≥200	≥200	≥500
SWD-Out	Socket, 8-pole	–	Push in terminals	Socket, 8-pole	Plug, 8-pole
Number of mating cycles	≥500	–	–	≥500	≥200

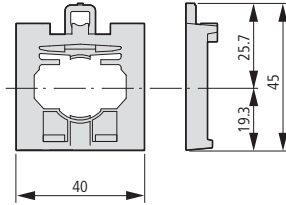
## Dimensions

## Fixing adapter (front fixing) for 3-contact LED elements

M22-A



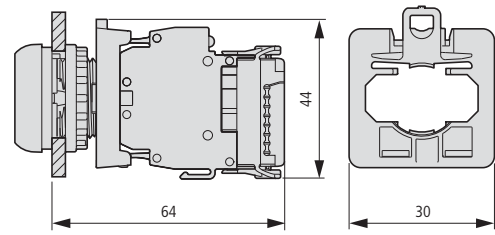
M22-SWD-A4



## Function elements

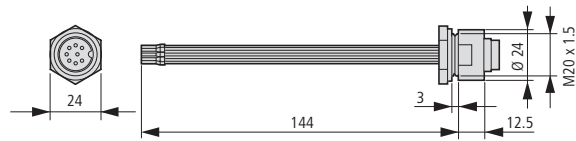
M22-SWD-K...

M22-SWD-LED...



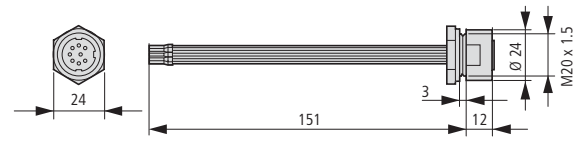
## Housing bushing plug

SWD4-SM8-20



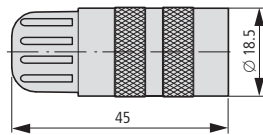
## Housing bushing socket

SWD4-SF8-20

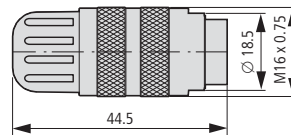


## Plug connector for SWD round cable, straight

SWD4-SF8-67

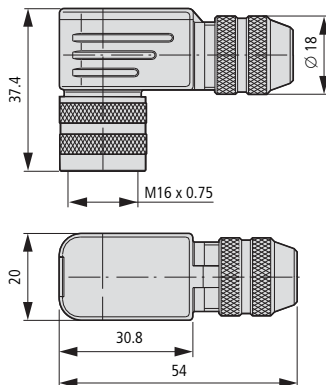


SWD4-SM8-67

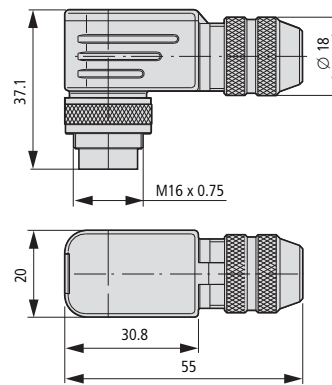


## Plug connector for SWD round cable, angled

SWD4-SF8-67W

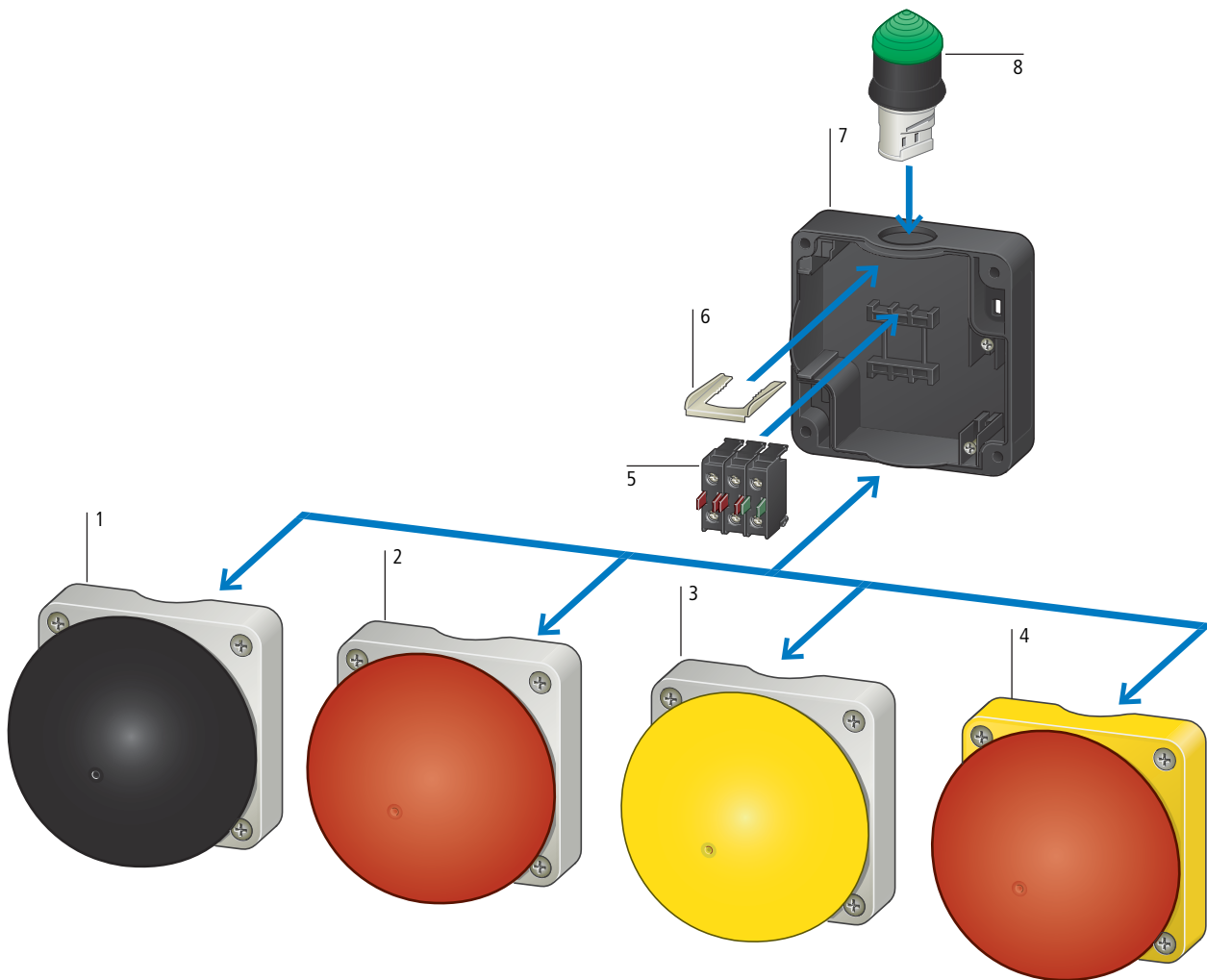


SWD4-SM8-67W





**System overview**



<b>Enclosure base</b>	7
Prepared for contact elements	
Base fixing (not for ...SMC... contacts)	
→ Page 2/78	

<b>Operator only with mushroom head</b>	1, 2, 3, 4
Various color combinations	
Yellow/red for Emergency stop or emergency switching off applications	
European Machinery Safety Directive 2006/42/EC	
For foot or hand operation	
→ Page 2/78	

<b>Contact elements</b>	5
Base fixing	
→ Page 2/31	

<b>Indicator lights</b>	6, 8
Conical	
BA9s base	
→ Page 2/26	

FAK-...

HPL02078EN

Equipping with contacts:  
 ⊕ = Positive opening safety function according to IEC/EN 60947-5-1  
 N/O = normally open contact    NC = normally closed contact

**FAK foot and palm switches**

	Enclosure base: black (RAL 9005) Enclosure top: only light gray (RAL 7035)	1 N/O	1 NC		Black		IP67, IP69K
		1 N/O	1 NC		Red		IP67, IP69K
	Pull to release Emergency stop pushbutton tamper-proof to ISO 13850/EN 418 Enclosure base: black (RAL 9005) Enclosure top: yellow (RAL 1004)	-	1 NC		Red		IP67, IP69K
		1 N/O	1 NC		Red		IP67, IP69K
		-	2 NC		Red		IP67, IP69K
	Enclosure base: gray Enclosure top: yellow Button, red Release by button on the side For Emergency-Stop applications according to ISO 13850 Can also be used as emergency switching off device	1 N/O	1 NC		Red		IP65

**Customized complete unit**

\* = Freely selectable customer identification or stock no.: max. 10 characters  
 An order consists of: enclosure base, enclosure top, contact elements for base fixing (→ Page 2/31)  
 ATEX → Engineering

Enclosure base							
For max. 3 contact elements						IP67, IP69K	
				Black		IP67, IP69K	

Enclosure top							
Momentary							
				Gray	Black	IP67, IP69K	
				Gray	Red	IP67, IP69K	
				Gray	Yellow	IP67, IP69K	
Maintained							
				Yellow	Red	IP67, IP69K	

**ATEX**

ATEX → Engineering  
 Only in conjunction with FAK-COMBINATION-  
 For use in accordance with the ATEX directive in dust-laden areas, Zone 22, Category 3  
 Ordering examples → Engineering

IP67, IP69K

HPL02079EN

FAK-...

Part no. Article no.	Price See price list	Std. pack	Approval mark	Information relevant for export to North America
<b>FAK-S/KC11/I</b> 229749		1 off		Product Standards IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking UL File No. E29184 UL CCN NKCR CSA File No. 012528 CSA Class No. 3211-03 NA Certification UL Listed, CSA certified Degree of Protection UL/CSA Type 3R, 4X, 12, 13
<b>FAK-R/KC11/I</b> 229746		1 off		
<b>FAK-R/V/KC01/IY</b> 229747		1 off		
<b>FAK-R/V/KC11/IY</b> 229748				
<b>FAK-R/V/KC02/IY</b> 256790				
<b>FAK-R/V/KC11A/I</b> 001475		1 off		
<b>FAK-COMBINATION-*</b> 229758		1 off		
<b>FAK-IU</b> 229753		1 off		
<b>FAK-S</b> 095540		1 off		Product Standards IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking UL File No. E29184 UL CCN NKCR CSA File No. 012528 CSA Class No. 3211-03 NA Certification UL Listed, CSA certified Degree of Protection UL/CSA Type 3R, 4X, 12, 13
<b>FAK-R</b> 071810				
<b>FAK-Y</b> 229754				
<b>FAK-R/V/Y</b> 229755				
<b>FAK-ATEX</b> 104381		1 off		



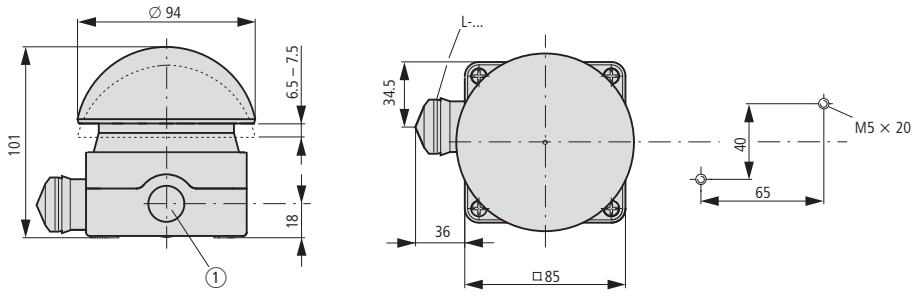
## Technical data

			FAK foot and palm switch		FAK-R/V/KC11A/I
			Momentary	Maintained	Maintained
<b>General</b>					
Standards			IEC/EN 60947, VDE 0660	IEC/EN 60947, VDE 0660	IEC/EN 60947, VDE 0660
Lifespan, mechanical	Operations	x 10 <sup>6</sup>	1	0.1	0.1
Operating frequency	Operations/h		≤ 3600	≤ 600	≤ 600
Actuating force		N	20 - 40	40 - 60	15 - 25
Operating torque		Nm	–	–	–
Protection type, IEC/EN 60529			IP67, IP69K	IP67, IP69K	IP65
Climatic proofing			Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30		
Ambient temperature					
Open		°C	-25 - +40	-25 - +40	-25 - +40
Mounting position			Any	Any	Any
Mechanical shock resistance to IEC 60068-2-27 Shock duration 11 ms, half-sinusoidal		g	> 15	> 15	> 15



**Dimensions**

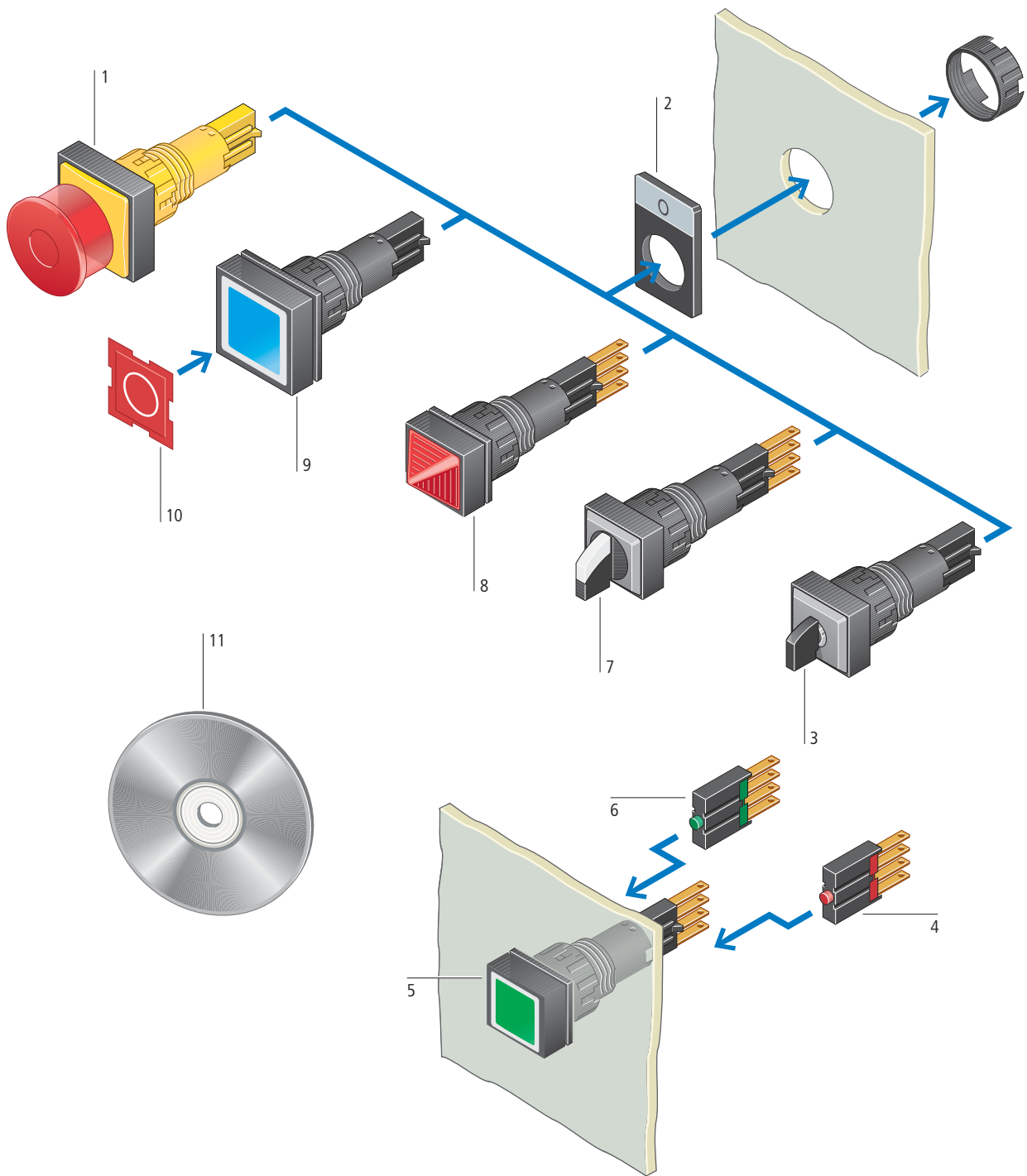
Foot and palm switch RMQ-Titan  
FAK...



3 × M20 (Pg 13.5) lateral  
1 × M16 in the base



### System overview







<b>Emergency stop pushbuttons</b>	1	<b>Illuminated pushbutton actuators</b>	5	<b>Pushbutton actuators</b>	9
Can also be used as emergency switching-off devices		Momentary and maintained		Momentary and maintained	
Tamper-proof according to ISO 13850/EN 418		Replaceable insert labels		Replaceable button plates	
Illuminated and non-illuminated		Colors: white, green, red, yellow, blue Custom laser labeling		Colors: white, green, red, yellow, blue, black	
Additional labels, with and without inscription		→ Page 2/85		→ Page 2/84	
European Machinery Safety Directive 2006/42/EC		<b>Contact element N/O (green)</b>	6	<b>Button plates/insert labels</b>	10
→ Page 2/90		With blade terminal		Wear-resistant button plates for pushbutton actuators	
<b>Label mounts</b>	2	Universal contacts suitable for use with electronic devices		Transparent insert plates for illuminated pushbuttons and indicator lights	
For insert labels		→ Page 2/84		With and without inscription	
Color: light gray, black, yellow		<b>Selector switch actuators</b>	7	With standard texts and symbols or with custom laser labeling	
Insert labels, with inscription and blank		2 and 3 positions		→ Page 2/91	
→ Page 2/94		Switching angle 45°		<b>Labeling with convenience</b>	11
<b>Key-operated buttons</b>	3	Momentary and maintained		All button plates, indicator lights and additional button labels from the RMQ-Titan range can be laser inscribed with any inscription and symbol as required.	
2 and 3 positions		Illuminated selector switch actuators with built-in lamp socket		Download: <a href="http://www.moeller.net/de/support">www.moeller.net/de/support</a> , Keyword: "Labeleditor"	
Switching angle 45°		Colors: white, green, red			
Momentary and maintained		→ Page 2/86			
Various lock mechanisms		<b>Indicator lights</b>	8		
→ Page 2/88		Flat and conical designs			
<b>Contact element NC (red)</b>	4	Built-in lamp socket			
With blade terminal		For filament bulbs and LEDs			
Universal contacts suitable for use with electronic devices		Colors: white, green, red, yellow, blue Custom laser labeling			
Positive opening safety function according to IEC/EN 60947-5-1		→ Page 2/89			
→ Page 2/84					

### Product Features

- Front dimension and minimum grid dimensions  
18 x 18 mm or 25 x 25 mm
- Mounting diameter 16.2 mm to EN 50007
- Protection type IP65
- For switching differing potentials
- Suitable for use with electronic devices to IEC/EN 61131-2
- Technical data to IEC/EN 60947-5-1
- Approved throughout the world



Color Button plate	Front dimensions 18 x 18 mm	Front dimensions 25 x 25 mm	Part no. Article no.	Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America
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**Pushbutton actuators, IP65**

Momentary			Q18D-11	Q25D-11
	Green		086332	090471
	Red		086299	090421
	White		054041	054038
	Black		054040	054039
	Black		086788	087230
	White		086752	086808
	Green		086450	086409
	Red		086713	086444
	Yellow		086417	086343
	Blue		086384	086328
-	None		093623	093624

Maintained			Q18DR-SW	Q25DR-SW
	Black		086269	088739
	White		086243	088701
	Green		086176	088531
	Red		086209	088627
	Yellow		090482	088404
	Blue		090241	088110
-	None		093625	093626

10 off	Product Standards
	IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CE marking
	UL File No. E29184
	UL CCN NKCR
	CSA File No. 46552
	CSA Class No. 3211-03
	NA Certification UL Listed, CSA certified
	Degree of Protection UL/CSA Type 1

10 off	Accessories	Page
	Assembly aids and accessories	→ 2/96
	Contact elements	
	N/O	→ 2/84
	NC	→ 2/84

⊖ = Safety function by positive opening according to IEC/EN 60947-5-1	Circuit symbol	Contact sequence	Color	Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America
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N/O = normally open contact  
NC = normally closed contact

**Contact elements**

Admissible operating voltage: 5 – 250 V

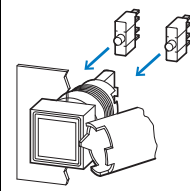
	1 N/O			<b>E10</b> 090351		50 off	Product Standards IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CE marking E29184 UL File No. E29184 UL CCN NKCR CSA File No. 46552 CSA Class No. 3211-03 NA Certification UL Listed, CSA certified
	-	1 NC ⊖		<b>E01</b> 090401		50 off	

**Notes**

$\begin{matrix} | \\ xy \end{matrix}$  x = Sequence number on front element  
 $\begin{matrix} | \\ y \end{matrix}$  y = Function number on contact element



Color Lens	Front dimensions		Part no. Article no.	Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America
	18 x 18 mm	25 x 25 mm					
<b>Illuminated pushbutton actuators, IP65</b>							
Momentary Without filament bulb		-	<b>Q18LT-WS</b> 089202	<b>Q25LT-WS</b> 086262		10 off	Product Standards IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CE marking E29184 NKCR 46552 3211-03 UL File No. E29184 UL CCN NKCR CSA File No. 46552 CSA Class No. 3211-03 NA Certification UL Listed, CSA certified Degree of Protection UL/CSA Type 1
		-	<b>Q18LT-GN</b> 089067	<b>Q25LT-GN</b> 086206			
		-	<b>Q18LT-RT</b> 089776	<b>Q25LT-RT</b> 086238			
		-	<b>Q18LT-GE</b> 088808	<b>Q25LT-GE</b> 086173			
		-	<b>Q18LT-BL</b> 088764	<b>Q25LT-BL</b> 090479			
	-	Without lens	<b>Q18LT-X</b> 051745	<b>Q25LT-X</b> 051746		10 off	
With filament bulb, 24 V		-	<b>Q18LT-WS/WB</b> 088561	<b>Q25LT-WS/WB</b> 090226		10 off	
		-	<b>Q18LT-GN/WB</b> 088509	<b>Q25LT-GN/WB</b> 089190			
		-	<b>Q18LT-RT/WB</b> 088537	<b>Q25LT-RT/WB</b> 089998			
		-	<b>Q18LT-GE/WB</b> 088449	<b>Q25LT-GE/WB</b> 089137			
		-	<b>Q18LT-BL/WB</b> 088338	<b>Q25LT-BL/WB</b> 089102			
	-	Without lens	<b>Q18LTR-X</b> 088123	<b>Q25LTR-X</b> 087232		10 off	
Maintained Without filament bulb		-	<b>Q18LTR-WS</b> 087831	<b>Q25LTR-WS</b> 086812		10 off	
		-	<b>Q18LTR-GN</b> 087831	<b>Q25LTR-GN</b> 086812			
		-	<b>Q18LTR-RT</b> 087918	<b>Q25LTR-RT</b> 086840			
		-	<b>Q18LTR-GE</b> 087764	<b>Q25LTR-GE</b> 086784			
		-	<b>Q18LTR-BL</b> 086813	<b>Q25LTR-BL</b> 086739			
	-	Without lens	<b>Q18LTR-X</b> 051735	<b>Q25LTR-X</b> 051736		10 off	
With filament bulb, 24 V		-	<b>Q18LTR-WS/WB</b> 086708	<b>Q25LTR-WS/WB</b> 086447		10 off	
		-	<b>Q18LTR-GN/WB</b> 086413	<b>Q25LTR-GN/WB</b> 086380			
		-	<b>Q18LTR-RT/WB</b> 086448	<b>Q25LTR-RT/WB</b> 086412			
		-	<b>Q18LTR-GE/WB</b> 086382	<b>Q25LTR-GE/WB</b> 086346			
		-	<b>Q18LTR-BL/WB</b> 086348	<b>Q25LTR-BL/WB</b> 086330			
	-	Without lens	<b>Q18LTR-X</b> 086348	<b>Q25LTR-X</b> 086330		10 off	



<b>Accessories</b>	<b>Page</b>
Assembly aids and accessories	→ 2/96
Contact elements	
N/O	→ 2/84
NC	→ 2/84

Contact configuration: ⊖ = Safety function via positive opening to IEC/EN 60947-5-1 N/O = normally open contact    NC = normally closed contact	Circuit symbol	Contact sequence	Color	Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America
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<b>Contact elements</b>							
Admissible operating voltage: 5 – 250 V							
	1 N/O			<b>E10</b> 090351		50 off	Product Standards IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CE marking E29184 NKCR 46552 3211-03 UL File No. E29184 UL CCN NKCR CSA File No. 46552 CSA Class No. 3211-03 NA Certification UL Listed, CSA certified
	1 NC ⊖			<b>E01</b> 090401		50 off	





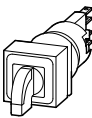

























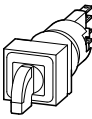

























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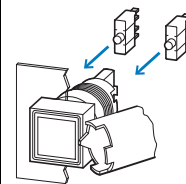
$\begin{matrix} | \\ xy \\ | \end{matrix}$  x = Sequence number on front element  
 $\begin{matrix} | \\ xy \\ | \end{matrix}$  y = Function number on contact element



Function:		Color	Part no. Article no.	Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America	
▷ = Momentary ▽ = Maintained								
<b>Selector switch actuators, IP65</b>								
With VS anti-rotation feature								
Two positions								
	▷ 45°	○	<b>Q18WK1</b> 036515	<b>Q25WK1</b> 036599		5 off 	Product Standards IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CE marking UL File No. E29184 UL CCN NKCR CSA File No. 46552 CSA Class No. 3211-03 NA Certification UL Listed, CSA certified Degree of Protection UL/CSA Type 1	
	▽ 45°	○	<b>Q18WK1R</b> 036598	<b>Q25WK1R</b> 036600				
Three positions								
	45° ↙ 45°	○	<b>Q18WK3</b> 072308	<b>Q25WK3</b> 072372		5 off 		
	45° ↓ 45°	○	<b>Q18WK3R</b> 072309	<b>Q25WK3R</b> 072373				
	45° ↘ 45°	○	<b>Q18WK3R1</b> 072310	<b>Q25WK3R1</b> 072374				
	45° ↙ 45°	○	<b>Q18WK3R2</b> 072311	<b>Q25WK3R2</b> 072375				
<b>Illuminated selector switch actuators, IP65</b>								
With VS anti-rotation feature								
Without filament bulb								
Two positions								
	▷ 45°	○	<b>Q18LWK1-WS</b> 040349	<b>Q25LWK1-WS</b> 040658		5 off 	Product Standards IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CE marking UL File No. E29184 UL CCN NKCR CSA File No. 46552 CSA Class No. 3211-03 NA Certification UL Listed, CSA certified Degree of Protection UL/CSA Type 1	
	▷ 45°	●	<b>Q18LWK1-RT</b> 039337	<b>Q25LWK1-RT</b> 040657				
	▷ 45°	●	<b>Q18LWK1-GN</b> 039336	<b>Q25LWK1-GN</b> 040656				
	▽ 45°	○	<b>Q18LWK1R-WS</b> 040376	<b>Q25LWK1R-WS</b> 040661				
	▽ 45°	●	<b>Q18LWK1R-RT</b> 040351	<b>Q25LWK1R-RT</b> 040660				
	▽ 45°	●	<b>Q18LWK1R-GN</b> 040350	<b>Q25LWK1R-GN</b> 040659				
With filament bulb								
Two positions								
	▷ 45°	○	<b>Q18LWK1-WS/WB</b> 038978	<b>Q25LWK1-WS/WB</b> 040379		5 off 		
	▷ 45°	●	<b>Q18LWK1-RT/WB</b> 038930	<b>Q25LWK1-RT/WB</b> 040378				
	▷ 45°	●	<b>Q18LWK1-GN/WB</b> 038883	<b>Q25LWK1-GN/WB</b> 040377				
	▽ 45°	○	<b>Q18LWK1R-WS/WB</b> 039335	<b>Q25LWK1R-WS/WB</b> 040476				
	▽ 45°	●	<b>Q18LWK1R-RT/WB</b> 039248	<b>Q25LWK1R-RT/WB</b> 040381				
	▽ 45°	●	<b>Q18LWK1R-GN/WB</b> 039247	<b>Q25LWK1R-GN/WB</b> 040380				
						<b>Accessories</b>		
						Assembly aids and accessories → 2/96		
						Contact elements		
						N/O → 2/84		
						NC → 2/84		



			Front dimensions 18 x 18 mm	Front dimensions 25 x 25 mm		Std. pack	Information relevant for export to North America 
Function:	Color	Part no.	Part no.	Price			
 = Momentary		Article no.	Article no.	See price list			
 = Maintained							
<b>Illuminated selector switch actuators, IP65</b>							
<b>With VS anti-rotation feature</b>							
<b>Without filament bulb</b>							
<b>Three positions</b>							
	45°  45°		<b>Q18LWK3-WS</b> 072322	<b>Q25LWK3-WS</b> 072358		5 off 	Product Standards IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CE marking UL File No. E29184 UL CCN NKCR CSA File No. 46552 CSA Class No. 3211-03 NA Certification UL Listed, CSA certified Degree of Protection UL/CSA Type 1
	45°  45°		<b>Q18LWK3-RT</b> 072323	<b>Q25LWK3-RT</b> 072359			
	45°  45°		<b>Q18LWK3-GN</b> 072324	<b>Q25LWK3-GN</b> 072360			
	45°  45°		<b>Q18LWK3R-WS</b> 072325	<b>Q25LWK3R-WS</b> 072361			
	45°  45°		<b>Q18LWK3R-RT</b> 072326	<b>Q25LWK3R-RT</b> 072362			
	45°  45°		<b>Q18LWK3R-GN</b> 072327	<b>Q25LWK3R-GN</b> 072363			
	45°  45°		<b>Q18LWK3R1-WS</b> 072328	<b>Q25LWK3R1-WS</b> 072364			
	45°  45°		<b>Q18LWK3R1-RT</b> 072329	<b>Q25LWK3R1-RT</b> 072365			
	45°  45°		<b>Q18LWK3R1-GN</b> 072330	<b>Q25LWK3R1-GN</b> 072366			
	45°  45°		<b>Q18LWK3R2-WS</b> 072331	<b>Q25LWK3R2-WS</b> 072367			
	45°  45°		<b>Q18LWK3R2-RT</b> 072332	<b>Q25LWK3R2-RT</b> 072368			
	45°  45°		<b>Q18LWK3R2-GN</b> 072333	<b>Q25LWK3R2-GN</b> 072369			
<b>With filament bulb</b>							
<b>Three positions</b>							
	45°  45°		<b>Q18LWK3-WS/WB</b> 072334	<b>Q25LWK3-WS/WB</b> 072346		5 off 	
	45°  45°		<b>Q18LWK3-RT/WB</b> 072335	<b>Q25LWK3-RT/WB</b> 072347			
	45°  45°		<b>Q18LWK3-GN/WB</b> 072336	<b>Q25LWK3-GN/WB</b> 072348			
	45°  45°		<b>Q18LWK3R-WS/WB</b> 072337	<b>Q25LWK3R-WS/WB</b> 072349			
	45°  45°		<b>Q18LWK3R-RT/WB</b> 072338	<b>Q25LWK3R-RT/WB</b> 072350			
	45°  45°		<b>Q18LWK3R-GN/WB</b> 072339	<b>Q25LWK3R-GN/WB</b> 072351			
	45°  45°		<b>Q18LWK3R1-WS/WB</b> 072340	<b>Q25LWK3R1-WS/WB</b> 072352			
	45°  45°		<b>Q18LWK3R1-RT/WB</b> 072341	<b>Q25LWK3R1-RT/WB</b> 072353			
	45°  45°		<b>Q18LWK3R1-GN/WB</b> 072342	<b>Q25LWK3R1-GN/WB</b> 072354			
	45°  45°		<b>Q18LWK3R2-WS/WB</b> 072343	<b>Q25LWK3R2-WS/WB</b> 072355			
	45°  45°		<b>Q18LWK3R2-RT/WB</b> 072344	<b>Q25LWK3R2-RT/WB</b> 072356			
	45°  45°		<b>Q18LWK3R2-GN/WB</b> 072345	<b>Q25LWK3R2-GN/WB</b> 072357			






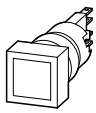







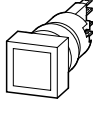






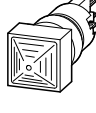













Accessories	Page
Assembly aids and accessories	→ 2/96
Contact elements	
N/O	→ 2/84
NC	→ 2/84





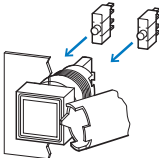








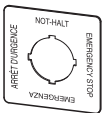







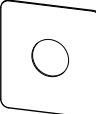

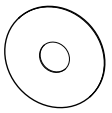



Function:	Key withdrawable in position	Color	Part no. Article no.	Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America
<p>Front dimensions 18 x 18 mm      Front dimensions 25 x 25 mm</p> <p>↳ = Momentary └ = Maintained</p>							
<b>IP65, key-operated button actuators</b>							
With 1 key and VS anti-rotation feature							
Two positions							
	↳ 45°	–	0	–	●	<b>Q18S1</b> 038806	<b>Q25S1</b> 038773
	└ 45°		0	–	●	<b>Q18S1R</b> 038805	<b>Q25S1R</b> 038772
	↳ 45°	–	0	–	●	<b>Q18S1R-A1</b> 072312	<b>Q25S1R-A1</b> 072376
	↳ 45°	–	0	–	●	<b>Q18S1-GN</b> 062148	<b>Q25S1-GN</b> 062150
	└ 45°		0	–	●	<b>Q18S1R-GN</b> 062151	<b>Q25S1R-GN</b> 062108
	↳ 45°	–	0	–	●	<b>Q18S1-RT</b> 046841	<b>Q25S1-RT</b> 046843
	└ 45°		0	–	●	<b>Q18S1R-RT</b> 046837	<b>Q25S1R-RT</b> 046839
	↳ 45°	–	0	–	○	<b>Q18S1-WS</b> 046849	<b>Q25S1-WS</b> 046851
	└ 45°		0	–	○	<b>Q18S1R-WS</b> 046845	<b>Q25S1R-WS</b> 046847
	↳ 45°	–	0	–	●	<b>Q18S1-BL</b> 045959	<b>Q25S1-BL</b> 046835
└ 45°		0	–	●	<b>Q18S1R-BL</b> 062814	<b>Q25S1R-BL</b> 045502	
Three positions							
	45° ↙ 45°	–	0	–	●	<b>Q18S3</b> 072313	<b>Q25S3</b> 072377
	45° ↓ 45°		0		●	<b>Q18S3R</b> 072314	<b>Q25S3R</b> 072378
	45° ↘ 45°	–	0	–	●	<b>Q18S3R-A1</b> 072315	<b>Q25S3R-A1</b> 072379
	45° ↘ 45°		0	–	●	<b>Q18S3R-A2</b> 072316	<b>Q25S3R-A2</b> 072380
	45° ↘ 45°	–	0		●	<b>Q18S3R-A3</b> 072317	<b>Q25S3R-A3</b> 072381
	45° ↘ 45°		0	–	●	<b>Q18S3R-A4</b> 072318	<b>Q25S3R-A4</b> 072382
	45° ↘ 45°	–	0	–	●	<b>Q18S3R-A5</b> 072319	<b>Q25S3R-A5</b> 072383
	45° ↙ 45°	–	0		●	<b>Q18S3R-A6</b> 072320	<b>Q25S3R-A6</b> 072384
	45° ↙ 45°	–	0	–	●	<b>Q18S3R-A7</b> 072321	<b>Q25S3R-A7</b> 072385
	45° ↙ 45°	–	0	–	●	<b>Q18S3-GN</b> 062149	<b>Q25S3-GN</b> 062153
	45° ↓ 45°		0		●	<b>Q18S3R-GN</b> 062152	<b>Q25S3R-GN</b> 062147
	45° ↘ 45°	–	0	–	●	<b>Q18S3-RT</b> 046842	<b>Q25S3-RT</b> 046844
	45° ↘ 45°		0		●	<b>Q18S3R-RT</b> 046838	<b>Q25S3R-RT</b> 046840
	45° ↙ 45°	–	0	–	○	<b>Q18S3-WS</b> 046850	<b>Q25S3-WS</b> 046852
	45° ↓ 45°		0		○	<b>Q18S3R-WS</b> 046846	<b>Q25S3R-WS</b> 046848
	45° ↙ 45°	–	0	–	●	<b>Q18S3-BL</b> 046368	<b>Q25S3-BL</b> 046836
45° ↘ 45°		0		●	<b>Q18S3R-BL</b> 064430	<b>Q25S3R-BL</b> 045646	
<p>Product Standards IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CE marking</p> <p>UL File No. E29184</p> <p>UL CCN NKCR</p> <p>CSA File No. 46552</p> <p>CSA Class No. 3211-03</p> <p>NA Certification UL Listed, CSA certified</p> <p>Degree of Protection UL/CSA Part no. 1</p>							

**Notes** For each color there is a corresponding key.  
→ Page 2/97









































Color		 Front dimensions 18 x 18 mm <b>Part no.</b> Article no.	Front dimensions 25 x 25 mm <b>Part no.</b> Article no.	<b>Price</b> See price list	Std. pack 	<b>Information relevant for export to North America</b> 
<b>Indicator lights, IP65</b>						
<b>Flat</b>						
<b>Without filament bulb</b>						
		<b>Q18LF-WS</b> 088406	<b>Q25LF-WS</b> 090228		10 off 	<b>Product Standards</b> IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CE marking <b>UL File No.</b> E29184 <b>UL CCN</b> NKCR <b>CSA File No.</b> 46552 <b>CSA Class No.</b> 3211-03 <b>NA Certification</b> UL Listed, CSA certified <b>Degree of Protection</b> UL/CSA Type 1
		<b>Q18LF-GN</b> 088337	<b>Q25LF-GN</b> 090000			
		<b>Q18LF-RT</b> 088387	<b>Q25LF-RT</b> 090198			
		<b>Q18LF-GE</b> 088303	<b>Q25LF-GE</b> 089252			
		<b>Q18LF-BL</b> 088270	<b>Q25LF-BL</b> 089229			
Without lens	—	<b>Q18LX</b> 051739	<b>Q25LX</b> 051740		10 off 	<b>Product Standards</b> IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CE marking <b>UL File No.</b> E29184 <b>UL CCN</b> NKCR <b>CSA File No.</b> 46552 <b>CSA Class No.</b> 3211-03 <b>NA Certification</b> UL Listed, CSA certified
<b>With filament bulb, 24 V</b>						
		<b>Q18LF-WS/WB</b> 088059	<b>Q25LF-WS/WB</b> 089151		10 off 	<b>Product Standards</b> IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CE marking <b>UL File No.</b> E29184 <b>UL CCN</b> NKCR <b>CSA File No.</b> 46552 <b>CSA Class No.</b> 3211-03 <b>NA Certification</b> UL Listed, CSA certified <b>Degree of Protection</b> UL/CSA Type 1
		<b>Q18LF-GN/WB</b> 087947	<b>Q25LF-GN/WB</b> 088828			
		<b>Q18LF-RT/WB</b> 088001	<b>Q25LF-RT/WB</b> 089104			
		<b>Q18LF-GE/WB</b> 087915	<b>Q25LF-GE/WB</b> 088798			
		<b>Q18LF-BL/WB</b> 087860	<b>Q25LF-BL/WB</b> 088761			
<b>Conical</b>						
<b>Without filament bulb</b>						
		<b>Q18LH-WS</b> 088705	<b>Q25LH-WS</b> 086263		10 off 	<b>Product Standards</b> IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CE marking <b>UL File No.</b> E29184 <b>UL CCN</b> NKCR <b>CSA File No.</b> 46552 <b>CSA Class No.</b> 3211-03 <b>NA Certification</b> UL Listed, CSA certified <b>Degree of Protection</b> UL/CSA Type 1
		<b>Q18LH-GN</b> 088629	<b>Q25LH-GN</b> 086207			
		<b>Q18LH-RT</b> 088655	<b>Q25LH-RT</b> 086241			
		<b>Q18LH-GE</b> 088585	<b>Q25LH-GE</b> 090481			
		<b>Q18LH-BL</b> 088560	<b>Q25LH-BL</b> 090428			
<b>With filament bulb, 24 V</b>						
		<b>Q18LH-WS/WB</b> 088535	<b>Q25LH-WS/WB</b> 090405		10 off 	<b>Product Standards</b> IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CE marking <b>UL File No.</b> E29184 <b>UL CCN</b> NKCR <b>CSA File No.</b> 46552 <b>CSA Class No.</b> 3211-03 <b>NA Certification</b> UL Listed, CSA certified <b>Degree of Protection</b> UL/CSA Type 1
		<b>Q18LH-GN/WB</b> 088483	<b>Q25LH-GN/WB</b> 090312			
		<b>Q18LH-RT/WB</b> 088507	<b>Q25LH-RT/WB</b> 090354			
		<b>Q18LH-GE/WB</b> 088448	<b>Q25LH-GE/WB</b> 090285			
		<b>Q18LH-BL/WB</b> 088424	<b>Q25LH-BL/WB</b> 090240			

	Color	Protection	Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America 
<div style="text-align: center;">             Front dimensions 25 x 25 mm         </div>						
<b>Emergency stop pushbuttons</b>						
Overload-protected to ISO 13850, EN 418 Pushbutton remains in pushed position; pull to release Can also be used as emergency switching off pushbutton actuator						
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">     </div> <div style="width: 45%; text-align: right;">    <b>Accessories</b>            Assembly aids and accessories → 2/96            Contact elements            N/O → 2/84            NC → 2/84         </div> </div>						
Non-illuminated		IP65	<b>Q25PV</b> 072370		5 off 	Product Standards IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CE marking
Illuminated With built-in multiple LED, 24 V DC, I <sub>e</sub> = 15 mA Positive pole at X1 No bulb replacement required.		IP65	<b>Q25LPV</b> 072371		2 off 	UL File No. E29184 UL CCN NKCR CSA File No. 46552 CSA Class No. 3211-03 NA Certification UL Listed, CSA certified Degree of Protection UL/CSA Type 1
<b>Emergency stop pushbuttons</b>						
Overload-protected to ISO 13850, EN 418 Pushbutton remains in pushed position; pull to release						
Non-illuminated		IP65	<b>Q25PV-S</b> 257063		5 off 	Product Standards IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CE marking
Illuminated With built-in multiple LED, 24 V DC, I <sub>e</sub> = 15 mA Positive pole at X1 No bulb replacement required.		IP65	<b>Q25LPV-S</b> 257064		5 off 	UL File No. E29184 UL CCN NKCR CSA File No. 46552 CSA Class No. 3211-03 NA Certification UL Listed, CSA certified Degree of Protection UL/CSA Type 1
<b>Emergency stop labels</b>						
Yellow, black lettering		Square 50 × 50 mm de, en, fr, it	IP65	<b>SQT11</b> 121375	5 off 	UL/CSA certification not required
		Round ø 60 mm de, en, fr, it	IP65	<b>SRT11</b> 121374	5 off 	
<b>Emergency-stop labels</b>						
Yellow, black lettering		Square 50 × 50 mm de, en, fr, it	IP65	<b>SQT1</b> 058874	5 off 	UL/CSA certification not required
		Round ø 60 mm de, en, fr, it	IP65	<b>SRT1</b> 058873	5 off 	
<b>Emergency-stop labels</b>						
Blank, yellow  Not suitable for engraving		Square 50 × 50 mm	IP65	<b>SQ-GE</b> 063263	5 off 	UL/CSA certification not required
		Round ø 60 mm	IP65	<b>SR-GE</b> 063264	5 off 	

































Inscription	Symbol	Button plates for pushbutton actuators		Price See price list	Std. pack	Information relevant for export to North America  
		18 x 18 mm Part no. Article no.	25 x 25 mm Part no. Article no.			
<b>Marking plates</b>						
-		<b>01TQ18</b> 086816	<b>01TQ25</b> 091121		20 off  	UL/CSA certification not required
-		<b>02TQ18</b> 086859	<b>02TQ25</b> 091149			
-		<b>03TQ18</b> 087766	<b>03TQ25</b> 091184			
-		<b>04TQ18</b> 087834	<b>04TQ25</b> 091442			
-		<b>05TQ18</b> 087867	<b>05TQ25</b> 091471			
-		<b>06TQ18</b> 087920	<b>06TQ25</b> 091506			
With customized inscription via Labeleditor → Notes		<b>XQ18D-*.*)</b> 285286	<b>XQ25D-*.*)</b> 285287		1 off  	
OFF		<b>10TQ18</b> 087951	<b>10TQ25</b> 091536		20 off  	
STOP or OFF		<b>19TQ18</b> 054510	<b>19TQ25</b> 054508			
ON		<b>11TQ18</b> 088007	<b>11TQ25</b> 091562			
START or ON		<b>20TQ18</b> 054509	<b>20TQ25</b> 054507			
START or ON		<b>21TQ18</b> 088061	<b>21TQ25</b> 091586			
Direction of movement		<b>32TQ18</b> 088125	<b>32TQ25</b> 091618			
Direction of movement		<b>36TQ18</b> 088275	<b>36TQ25</b> 092592			
Electr. voltage		<b>34TQ18</b> 095386	<b>34TQ25</b> 092563			
Increase		<b>37TQ18</b> 088315	<b>37TQ25</b> 092608			
Decrease		<b>38TQ18</b> 088340	<b>38TQ25</b> 092645			
Manual actuation		<b>40TQ18</b> 088389	<b>40TQ25</b> 092709			
Automatic		<b>41TQ18</b> 088412	<b>41TQ25</b> 092774			
ON-OFF, momentary		<b>43TQ18</b> 088426	<b>43TQ25</b> 092791			
Unlock		<b>52TQ18</b> 088452	<b>52TQ25</b> 092825			
Lock		<b>53TQ18</b> 088487	<b>53TQ25</b> 092874			
Loosen		<b>54TQ18</b> 088512	<b>54TQ25</b> 093013			
Clamp		<b>55TQ18</b> 088545	<b>55TQ25</b> 093032			
Liquid START			<b>921TQ25</b> 047426			
Liquid STOP		<b>63TQ18</b> 088566	<b>63TQ25</b> 093060			
Horn		<b>66TQ18</b> 088590	<b>66TQ25</b> 093092			
Spindle START			<b>811TQ25</b> 053898			
Spindle STOP			<b>814TQ25</b> 047425			
ON-OFF, maintained		<b>899TQ18</b> 089232	<b>899TQ25</b> 093063			

**Notes**

<sup>1)</sup> When ordering, complete part no. XQ18D-\*.\*) or XQ25D-\*.\*):  
 1st wildcard \* Δ Color, e.g.: -R, -G, -B, -W, -Y, -S  
 2nd wildcard \* Δ File name generated by Labeleditor → Engineering























Illuminated pushbutton actuator, Indicator light, laser inscription → Page 2/97

Inscription	Symbol	Button plates for pushbutton actuators		Price See price list	Std. pack	Information relevant for export to North America 
		18 x 18 mm Part no. Article no.	25 x 25 mm Part no. Article no.			
<b>Marking plates</b>						
Direction of movement		<b>911TQ18</b> 089778	<b>911TQ25</b> 093100		20 off 	UL/CSA certification not required
Direction of movement		<b>912TQ18</b> 090181	<b>912TQ25</b> 093135			
		<b>80TQ18</b> 088631	<b>80TQ25</b> 093134			
		<b>81TQ18</b> 088663	<b>81TQ25</b> 093158			
		<b>82TQ18</b> 088715	<b>82TQ25</b> 093178			
		<b>83TQ18</b> 088744	<b>83TQ25</b> 093197			
		<b>84TQ18</b> 088766	<b>84TQ25</b> 093224			
		<b>85TQ18</b> 088811	<b>85TQ25</b> 093241			
		<b>86TQ18</b> 089069	<b>86TQ25</b> 093257			
		<b>87TQ18</b> 089107	<b>87TQ25</b> 093288			
		<b>88TQ18</b> 089165	<b>88TQ25</b> 093305			
		<b>89TQ18</b> 089205	<b>89TQ25</b> 093329			
STOP			<b>110TQ25</b> 093363			
STOP			<b>112TQ25</b> 063748			
ARRET			<b>310TQ25</b> 091446			
START			<b>111TQ25</b> 093399			
START			<b>122TQ25</b> 063746			
MARCHE			<b>311TQ25</b> 091475			
AUS			<b>117TQ25</b> 093434			
AUS			<b>113TQ25</b> 063749			
OFF			<b>217TQ25</b> 090911			
ARRET			<b>317TQ25</b> 091508			
EIN			<b>121TQ25</b> 093461			
EIN			<b>123TQ25</b> 063747			
ON			<b>221TQ25</b> 090934			
MARCHE			<b>321TQ25</b> 091563			





























**Notes**

Illuminated pushbutton actuators, Indicator lights, Laser inscription → Page 2/97



Inscription	Symbol	Button plates for pushbutton actuators 25 × 25 mm Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America  
<b>Marking plates</b>					
LINKS		<b>134TQ25</b> 093494		20 off  	UL/CSA certification not required
LEFT		<b>234TQ25</b> 090987			
GAUCHE		<b>334TQ25</b> 092567			
RECHTS		<b>135TQ25</b> 093527			
RIGHT		<b>235TQ25</b> 091009			
DROITE		<b>335TQ25</b> 092594			
ZU		<b>153TQ25</b> 090632			
CLOSE		<b>253TQ25</b> 091089			
FERME		<b>353TQ25</b> 092609			
AUF		<b>172TQ25</b> 090732			
UP		<b>272TQ25</b> 091124			
MONTEE		<b>372TQ25</b> 092711			
AB		<b>173TQ25</b> 090822			
DOWN		<b>273TQ25</b> 091152			
DESCENTE		<b>373TQ25</b> 092775			
RESET		<b>287TQ25</b> 091185			
VOR		<b>190TQ25</b> 090852			
ZURÜCK		<b>191TQ25</b> 090866			

**Notes** Illuminated pushbutton actuators, Indicator lights, Laser inscription → Page 2/97

Inscription		Label mounts Q25T... with insert label		Insert labels for Q25T...-X label mount		Std. pack	Information relevant for export to North America 
		Part no. Article no.	Price See price list	Part no. Article no.	Price See price list		
Blank, black, can be engraved		<b>Q25TS-01</b> 046184		<b>01SQ25</b> 037986		20 off 	UL/CSA certification not required
Blank, aluminum-colored, can be engraved		<b>Q25TS-02</b> 046185		<b>02SQ25</b> 038074			
Blank, yellow, not for engraving		<b>Q25TGE-05</b> 063259		<b>05SQ25</b> 063201			
AUS		<b>Q25TS-117</b> 046194					
EIN		<b>Q25TS-121</b> 046196					
ON		<b>Q25TS-221</b> 046197					
STOP		<b>Q25TS-110</b> 046190		<b>110SQ25</b> 038507			
START		<b>Q25TS-111</b> 046192					
Störung		<b>Q25TS-150</b> 046198					
FAULT		<b>Q25TS-250</b> 046199					
DÉFAUT		<b>Q25TS-386</b> 072306		<b>386SQ25</b> 072302			
Betrieb		<b>Q25TS-183</b> 046201					
EN SERVICE		<b>Q25TS-383</b> 046204					
HAND 0 AUTO		<b>Q25TS-197</b> 072305					
MAN. 0 AUTO		<b>Q25TS-397</b> 072307					
NOT-AUS		<b>Q25TGE-199</b> 063260		<b>199SQ25</b> 063200			
EMERGENCY STOP		<b>Q25TGE-299</b> 063261		<b>299SQ25</b> 063199			
RUN				<b>283SQ25</b> 038767			
EN SERVICE				<b>383SQ25</b> 038771			
ARRET D'URGENCE				<b>399SQ25</b> 048638			
-		<b>Q25TS-10</b> 046186		<b>10SQ25</b> 038268			
-		<b>Q25TS-11</b> 046187					
-		<b>Q25TS-32</b> 046188					
-		<b>Q25TS-90</b> 046189		<b>90SQ25</b> 038271			
-		<b>Q25TS-93</b> 072304		<b>93SQ25</b> 072300			
With customized inscription through Labeleditor → Notes	-	<b>XQ25TS-*.*</b> 109773				1 off 	UL/CSA certification not required





















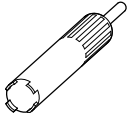












**Notes**

When ordering, complete part no. XQ25TS-\*.\*.  
1st wildcard \* Δ Color: AL = aluminum, B = black, Y = yellow  
2nd wildcard \* Δ File extension



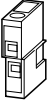



















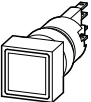








Color	RAL value	Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America 
<b>Surface mounting enclosures, IP65<sup>1)</sup></b>					
For conventional wiring or for mounting ILP1 printed circuit boards With plastic cover fixing screws Enclosure base: black (RAL 9005) 8 mounting locations Knockout cable entries Bottom: 4 × M20 Sides: 7 × M20					
		RAL 7035	<b>I8</b> 046299	2 off 	Product Standards IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CE marking UL File No. E29184 UL CCN NKCR CSA File No. 46552 CSA Class No. 3211-03 NA Certification UL Listed, CSA certified Degree of Protection UL/CSA Type 1
<b>Flush mounting plate, IP65<sup>1)</sup></b>					
For conventional wiring or for mounting ELP 1 printed circuit boards 8 mounting locations					
		RAL 7035	<b>E8</b> 054423	1 off 	Product Standards IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CE marking
		RAL 9005	<b>E8-SW</b> 065212	1 off 	UL File No. E29184 UL CCN NKCR CSA File No. 46552 CSA Class No. 3211-03 NA Certification UL Listed, CSA certified Degree of Protection UL/CSA Type 1
<b>Customized complete unit</b>					
To order use form F0315 → Data sheet in Online Catalog * = Freely selectable customer identification or stock no.; max. 10 characters.					
-	-	Configurable	<b>M16-COMBINATION-*</b> 232189	1 off	
<b>Blanking plates, IP65</b>					
For closing off of spare mounting locations in surface mounting enclosures or flush mounting panels in grid dimension 25 × 37.5 mm					
		RAL 9005	<b>Q25AS</b> 036602	10 off 	UL/CSA certification not required
		RAL 7035	<b>Q25AGR</b> 048641		
		RAL 1004	<b>Q25AGE</b> 048640		
<b>Label mounts without insert label</b>					
For additional marking of mounting locations in surface mounting enclosures or flush mounting panels in grid dimension 25 × 37.5 mm Suitable insert labels → 2/94					
		RAL 9005	<b>Q25TS-X</b> 036601	20 off 	UL/CSA certification not required
		RAL 7035	<b>Q25TGR-X</b> 063257		
		RAL 1004	<b>Q25TGE-X</b> 063258		

**Notes** Unused mounting locations must be closed off with blanking plates.  
Each used mounting location must be fitted with a label mount.

Model	Durability EN 60064 at $t_a = +25\text{ °C}$ $t_{\text{average}}$ (AC) h	Color	Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America 
<b>Filament lamp W 2 × 4.6 d</b>						
	6 V/1.0 W	10000	–	<b>WBGL6</b> 090223	50 off 	UL/CSA certification not required
	12 V/1.0 W	15000	–	<b>WBGL12</b> 089968	50 off 	
	24 - 28 V/1.0 W	7000	–	<b>WBGL24</b> 089247	100 off 	
<b>Multiple LEDs W 2 × 4.6 d</b>						
For AC/DC 	6 V/45 mA	60000		<b>WBLED-GE6</b> 055711	10 off 	UL/CSA certification not required
				<b>WBLED-GN6</b> 055712		
				<b>WBLED-RT6</b> 055713		
	12 V/24 mA	60000		<b>WBLED-GE12</b> 055714		
				<b>WBLED-GN12</b> 055715		
				<b>WBLED-RT12</b> 055716		
<b>Single-chip LED W 2 × 4.6 d</b>						
Positive pole to X1, Integral suppressor circuit up to 1000 V 	18 - 30 V DC/7 - 12.5 mA	100000		<b>LEDWB-Y</b> 208724	10 off 	UL/CSA certification not required
				<b>LEDWB-G</b> 208725		
				<b>LEDWB-R</b> 208726		
				<b>LEDWB-W</b> 208728		
				<b>LEDWB-B</b> 208727		
			<b>Combination box spanner</b>			
For lock nut with bulb extractor 	–	–	–	<b>R16-MS</b> 090297	10 off 	UL/CSA certification not required
<b>Insulated ferrule</b>						
For fast-on connector 2.8 × 0.8 mm, connected from front $U_e > 50\text{ V AC}$ , $U_e > 120\text{ V DC}$ 	–	–	–	<b>ISH2,8</b> 090267	100 off 	UL/CSA certification not required
<b>Flat pin bushing</b>						
2.8 × 0.8 mm for conductor cross-section 0.5 - 1 mm <sup>2</sup> 	–	–	–	<b>LT306.022.3</b> 058863	100 off 	UL/CSA certification not required
<b>Blanking plugs, IP65</b>						
For closing off of spare mounting locations 	For grid dimension 18 × 18 mm	–		<b>Q18BS</b> 037985	10 off 	UL/CSA certification not required
	For grid dimension 25 × 25 mm	–		<b>Q25BS</b> 036976	10 off 	
<b>Anti-rotation feature</b>						
Guard-ring as anti-rotation feature for all RMQ16 pushbutton 	–	–	–	<b>VS</b> 046301	50 off 	UL/CSA certification not required



For use with		Color	Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America  
<b>IP20, screw adapter</b>						
Conductor cross-sections 1 × 1.5 mm <sup>2</sup> , 2 × 0.75 mm <sup>2</sup>						
	For NC		<b>SRA01</b> 028101		20 off  	UL/CSA certification not required
	For N/O		<b>SRA10</b> 028100			
	For lamp socket		<b>SRAL</b> 028099			
<b>Individual keys</b>						
Standard lock mechanism, black, each colour corresponds to a specific lock mechanism						
	-		<b>ES16</b> 065190		10 off  	UL/CSA certification not required
	-		<b>ES16-GN</b> 030742		5 off  	
	-		<b>ES16-RT</b> 030741			
	-		<b>ES16-WS</b> 030743			
	-		<b>ES16-BL</b> 030744			
<b>Transparent insert plates</b>						
For better light diffusion						
-	For grid dimension 18 × 18 mm		<b>01LQ18</b> 090231		20 off  	UL/CSA certification not required
-	For grid dimension 25 × 25 mm		<b>01LQ25</b> 093180			
<b>Lenses for illuminated pushbutton actuators</b>						
With customized inscription to order via Labeleditor → Notes						
	For grid dimension 18 × 18 mm	-	<b>XQ18LT-*.*</b> 285288		1 off  	UL/CSA certification not required
	For grid dimension 25 × 25 mm	-	<b>XQ25LT-*.*</b> 285289			
<b>Lenses for indicator lights, flush</b>						
With customized inscription to order via Labeleditor → Notes						
-	For grid dimension 18 × 18 mm	-	<b>XQ18LF-*.*</b> 285310		1 off  	UL/CSA certification not required
-	For grid dimension 25 × 25 mm	-	<b>XQ25LF-*.*</b> 285311			
<b>Insert labels for label mounts</b>						
For laser inscription with Labeleditor → Notes						
-	For Q25TS-...	-	<b>XQ25TS-*.*</b> 109773		1 off  	

**Notes** When ordering, complete part no. XQ...-\*.\*:  
 1st wildcard \* ≙ Color, e.g.: -R, -G, -B, -W, -Y, -S  
 2nd wildcard \* ≙ file name generated by Labeleditor → Engineering

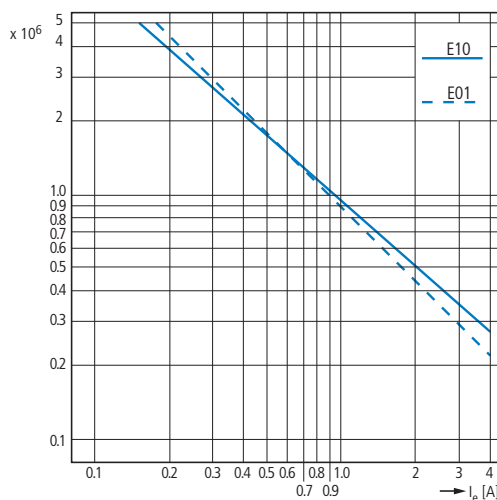

**Technical data**

			Contact elements	Illuminated pushbuttons (maintained)	Illuminated selector pushbuttons	Indicator lights
<b>General</b>						
Standards			IEC/EN 60947, VDE 0660			
Lifespan, mechanical	Operations	x 10 <sup>6</sup>	> 100	> 30	> 3	–
Operating frequency	Operations/h		≤ 3600	≤ 1800	≤ 1800	–
Actuating force		N	3	4	–	–
Operating torque		Nm	–	–	≤ 0.2	–
Protection type, IEC/EN 60529			IP20 with ISH2.8	IP65	IP65	IP65
Climatic proofing			Damp heat, constant as per IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30			
Ambient temperature						
Open		°C	-25 - +60	-25 - +60	-25 - +60	-25 - +60
Encapsulated		°C	-25 - +40	-25 - +40	-25 - +40	-25 - +40
Mounting position			Any	Any	Any	Any
Mechanical shock resistance to IEC 60068-2-27 Shock duration 11 ms, half-sinusoidal			g	> 40	> 40	> 40
Terminal capacity			mm <sup>2</sup>	0.5 - 1.0	0.5 - 1.0	0.5 - 1.0
Blade terminal			2.8 × 0.8 mm to DIN 46244			
Flat pin bushing			2.8 × 0.8 mm to DIN 46247 and IEC 60760			
<b>Contacts</b>						
Rated impulse withstand voltage	U <sub>imp</sub>	V AC	4000	800	800	800
Rated insulation voltage	U <sub>i</sub>	V	250	250	250	250
Overvoltage category/pollution degree			III/3	III/3	III/3	III/3
Rated operational voltage	U <sub>e</sub>	V AC	250	24	24	24
Control circuit reliability						
At 24 V DC/5 mA	H <sub>F</sub>	Fault probability	< 10 <sup>-7</sup> (i.e. 1 failure to 10 <sup>7</sup> operations)			–
At 5 V DC/1 mA	H <sub>F</sub>	Fault probability	< 5 × 10 <sup>-6</sup> (i.e. 1 failure to 5 × 10 <sup>6</sup> operations)			–
Use of ISH insulated ferrule 2.8			On >24 V AC/DC recommended On >50 V AC or 120 V DC mandatory, also on unoccupied blade terminals			
Max. short-circuit protective device						
Fuseless		Part no.	FAZ-B6/1	–	–	–
Fuse	gG/gL	A	10	–	–	–
<b>Switching capacity</b>						
Rated operation current						
AC-15						
24 V	I <sub>e</sub>	A	4	–	–	–
48 V	I <sub>e</sub>	A	4	–	–	–
110 V	I <sub>e</sub>	A	4	–	–	–
230 V	I <sub>e</sub>	A	4	–	–	–
DC-13						
24 V	I <sub>e</sub>	A	3	–	–	–
42 V	I <sub>e</sub>	A	1	–	–	–
60 V	I <sub>e</sub>	A	0.8	–	–	–
110 V	I <sub>e</sub>	A	0.5	–	–	–
220 V	I <sub>e</sub>	A	0.2	–	–	–





			Pushbutton actuators (maintained)	Selector switch actuators	Key-operated pushbutton actuators	Emergency switching-off pushbutton actuators
<b>General</b>						
Standards			IEC/EN 60947, VDE 0660	IEC/EN 60947, VDE 0660	IEC/EN 60947, VDE 0660	IEC/EN 60947, VDE 0660
Lifespan, mechanical	Operations	x 10 <sup>6</sup>	> 3	> 3	> 3	> 0.1
Operating frequency	Operations/h		≤ 1800	≤ 1800	≤ 1800	≤ 600
Actuating force		N	4	–	–	25
Operating torque		Nm	–	0.2	0.4	–
Protection type, IEC/EN 60529			IP65	IP65	IP65	IP65
Climatic proofing			Damp heat, constant as per IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30			
<b>Ambient temperature</b>						
Open		°C	-25 - +60	-25 - +60	-25 - +60	-25 - +60
Encapsulated		°C	-25 - +40	-25 - +40	-25 - +40	-25 - +40
Mounting position			Any	Any	Any	Any
Mechanical shock resistance to IEC 60068-2-27 Shock duration 11 ms, half-sinusoidal		g	> 40	> 40	> 40	> 40
Terminal capacity		mm <sup>2</sup>	0.5 - 1.0	0.5 - 1.0	0.5 - 1.0	0.5 - 1.0
Blade terminal			2.8 × 0.8 mm to DIN 46244			
Flat pin bushing			2.8 × 0.8 mm to DIN 46247 and IEC 60760			



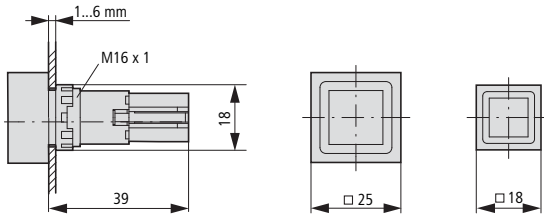
Durability, electrical AC-15 to IEC/EN 60947-5-1 at 230 V  
I<sub>e</sub> = rated operational current



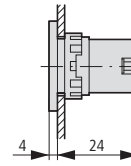
**Dimensions**

**Actuating and indicator elements**

**Square style**

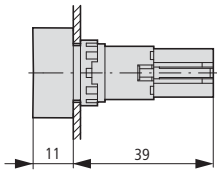


**Q...BS**

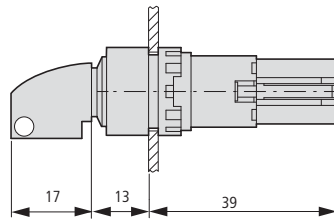


**Q...D-...**

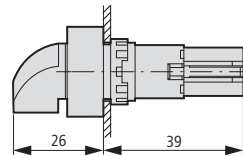
**Q...DR-...**



**Q...S...**



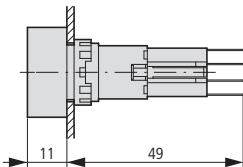
**Q...WK...**



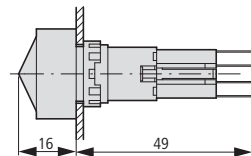
**Q...LT-...**

**Q...LTR-...**

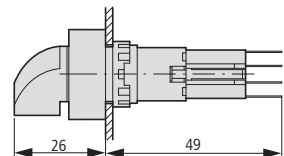
**Q...LF-...**



**Q...LH-...**

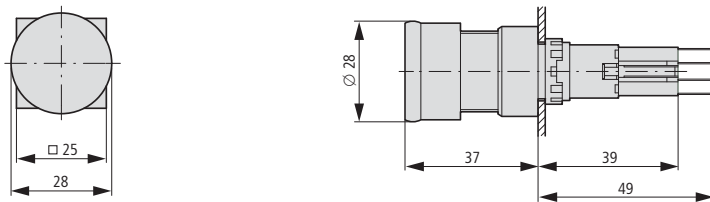


**Q...LWK...**



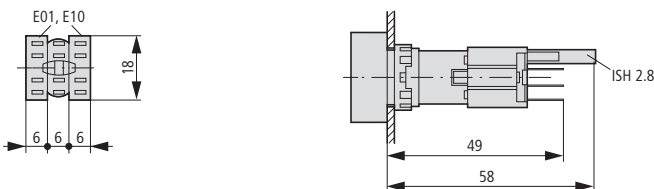
**Q25PV...**

**Q25LPV...**

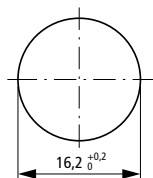


**Front fixing**

**Q18, Q25, E89, SRA, VS, M16**

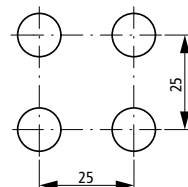


**Drilling dimensions**



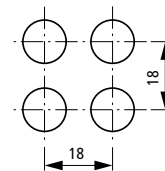
**Grid dimension to IEC/EN 60947**

**Q25**

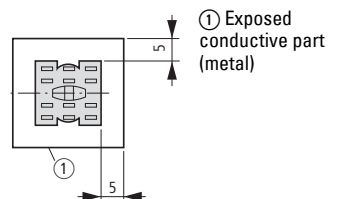


**Minimum grid spacing dimension**

**Q18**



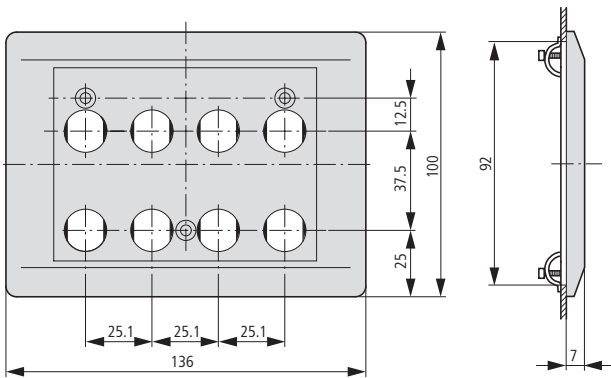
**Mounting distance**





**Flush mounting panel**

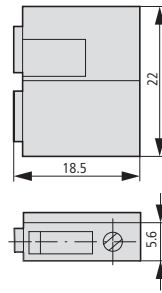
E8...



Size of cutout: 92 × 94

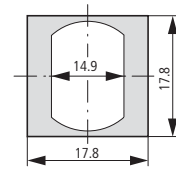
**RMQ16 screw adapter**

SRA...



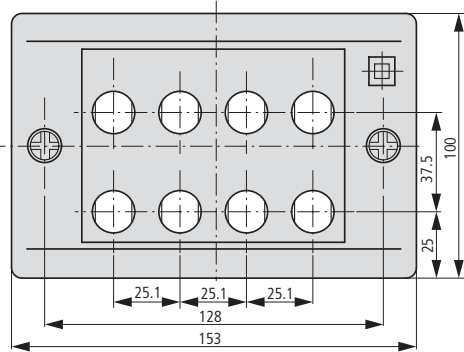
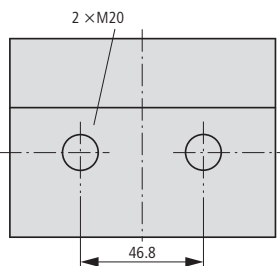
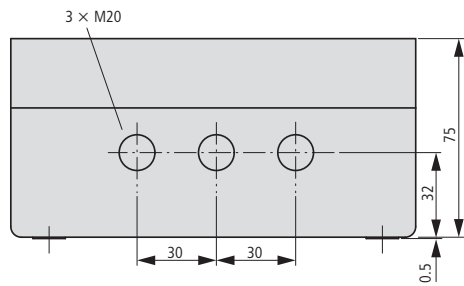
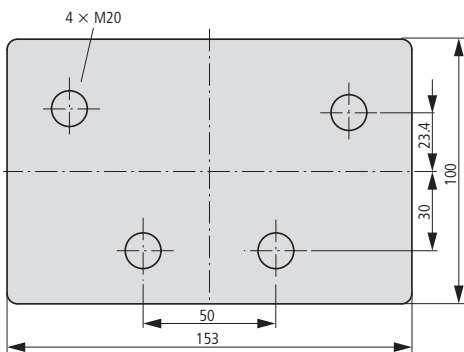
**Anti-rotation feature**

VS



**RMQ16 housing extension**

I8...

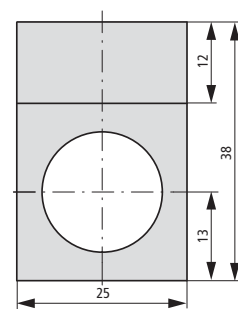


Fixing hole: 2 x Ø 4.5 mm

Distance: 128 mm

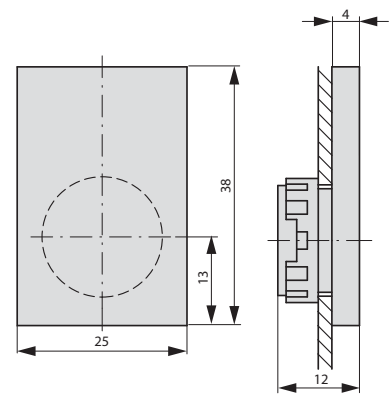
**RMQ16 label mount**

Q25TS...



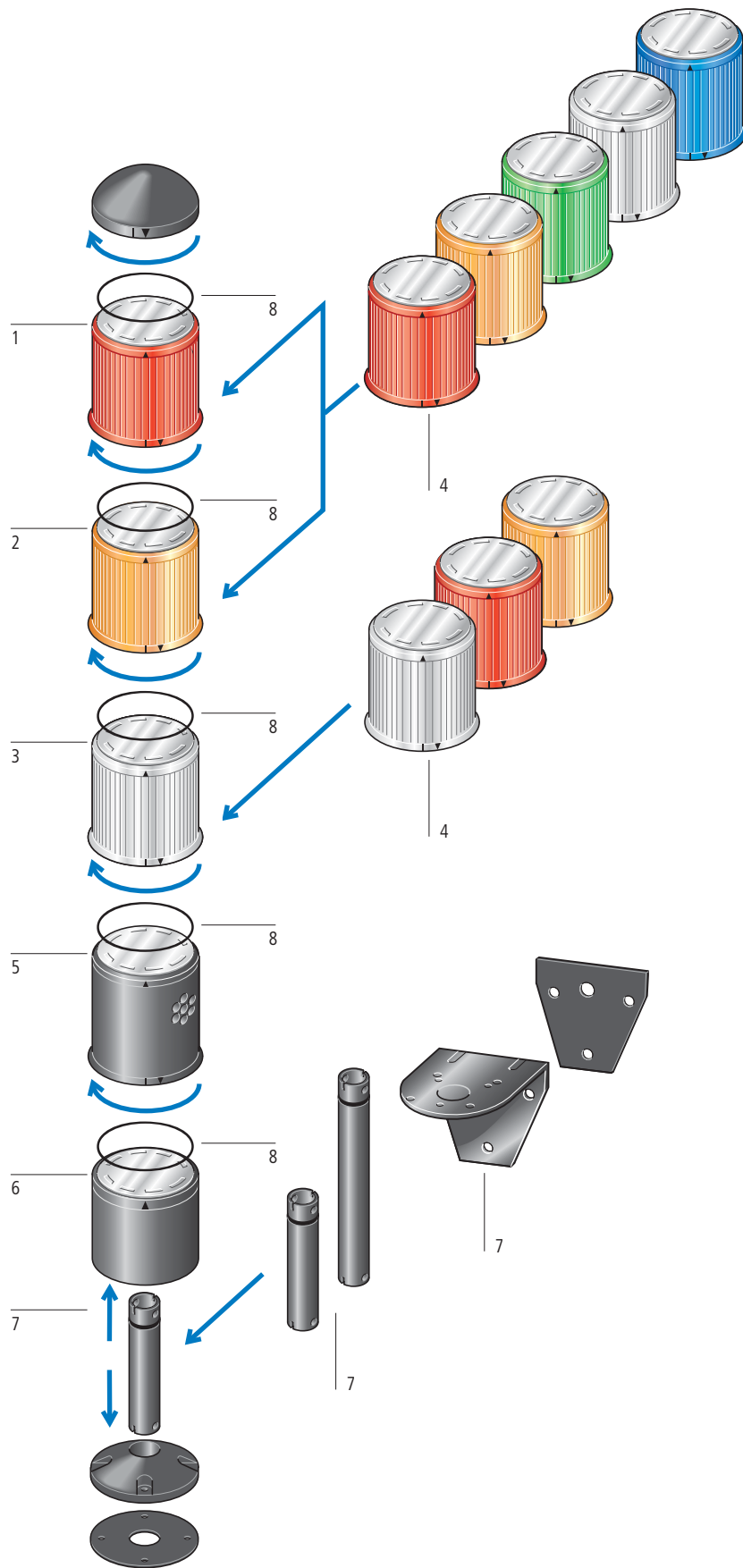
**Blanking plates**

Q25AS





System overview





<b>Continuous light</b>	1
Easy mounting with bayonet fitting	
Modules can be arranged in any order	
Protection type IP54	
Up to five levels can be actuated independently	
Operating mode: 100 % DF	
Without light elements	
→ Page 2/104	

<b>Flashing light</b>	2
Easy mounting with bayonet fitting	
Modules can be arranged in any order	
Protection type IP54	
Up to five levels can be actuated independently	
Operating mode: 100 % DF	
With filament bulb	
Flashing frequency: approx. 1 Hz	
→ Page 2/105	

<b>Strobe light</b>	3
Easy mounting with bayonet fitting	
Modules can be arranged in any order	
Protection type IP54	
Up to five levels can be actuated independently	
Operating mode: 100 % DF	
Flash power 1 Ws	
Flashing frequency: approx. 1 Hz	
→ Page 2/106	

<b>Caps</b>	4
Color: red, yellow, green, white, blue	
Fresnel grooves ensure even light distribution	

<b>Acoustic device</b>	5
Easy mounting with bayonet fitting	
Modules can be arranged in any order	
Protection type IP20	
Operating mode: 100 % DF	
Continuous tone or pulsed tone	
Sound pressure: about 90 dB at 60 cm	
Frequency: 2750 Hz	
→ Page 2/105	

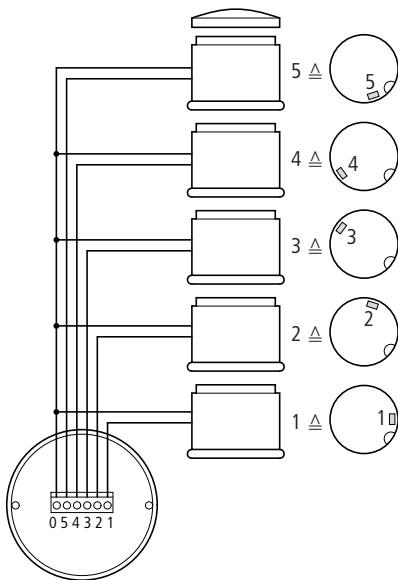
<b>Base module</b>	6
Easy mounting with bayonet fitting	
Protection type IP54	
For bottom mounting or in tubular column	
Terminal connection capacity 6 × 1.5 mm <sup>2</sup>	
With top cover	
→ Page 2/104	

<b>Accessories</b>	7
Spacer available in four lengths	
Filament bulbs, LEDs	
90° wall mounting with commercial four-hole fixing	
→ Page 2/107	

<b>Gaskets</b>	8
For increasing the degree of protection type to IP65	
→ Page 2/107	

**Product feature of SL**

- Individual programming by jumper: max. 5 modules and base module
- Customized combinations → Page 2/104
































Rated operational voltage U <sub>e</sub> V	Modules Number	Color	Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America 
<b>Complete units</b>						
Base module with foot and 100 mm tube including filament lamp Continuous light, IP54						
24 V AC/DC	3		<b>SL-100-L-RYG/24</b> 205352		1 off 	Product Standards IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking E29184 UL File No. E29184 UL CCN NKCR CSA File No. 012528 CSA Class No. 3211-03 NA Certification UL Listed, CSA certified Degree of Protection UL/CSA Type 12, with additional SL-IP65: part no. 4X
24 V AC/DC	2		<b>SL-100-L-RG/24</b> 205354		1 off 	Product Standards IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking E29184 UL File No. E29184 UL CCN NKCR CSA File No. 012528 CSA Class No. 3211-03 NA Certification UL Listed, CSA certified Degree of Protection UL/CSA Type 12, with additional SL-IP65: part no. 4X
<b>Customized complete unit</b>						
To order use form F0315, → Data sheet in Online Catalog * = Freely selectable customer identification or stock no.; Maximum 10 characters						
-	-	-	<b>SL-COMBINATION-*</b> 229655		1 off 	Product Standards IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking E29184 UL File No. E29184 UL CCN NKCR CSA File No. 012528 CSA Class No. 3211-03 NA Certification UL Listed, CSA certified

Terminal type	Part no. Article no.	Price See price list	Std. pack	Notes	Information relevant for export to North America 
<b>Base module</b>					
Black, with cover					
Screw terminals	<b>SL-B</b> 205311		1 off 	-	Product Standards IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking E29184 UL File No. E29184 UL CCN NKCR CSA File No. 012528 CSA Class No. 3211-03 NA Certification UL Listed, CSA certified
Cage clamp Cage clamp is a registered trademark of Wago Kontakttechnik GmbH, Minden,	<b>SL-CB</b> 218483		1 off 		Product Standards IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CE marking E29184 UL File No. E29184 UL CCN NKCR CSA File No. 012528 CSA Class No. 3211-03 NA Certification UL Listed, CSA certified
Connection to AS-Interface	<b>SL-B-ASI</b> 222174		1 off	Base module (printed circuit board in base enclosure with 3 outputs): <ul style="list-style-type: none"> <li>Total power supply from AS-Interface (max. 250 mA) using 2-way screw terminal</li> <li>Combination of 3 surface mounting modules with different functions (continuous, flashing, strobe light and acoustic indication)</li> <li>Status indication via LEDs</li> <li>Order stacking modules separately</li> </ul>	
<b>Continuous light module</b>					
Without light elements, filament lamps → Page 2/107, LED → Page 2/107					
	<b>SL-L-W</b> 205312		1 off 		Product Standards IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking E29184 UL File No. E29184 UL CCN NKCR CSA File No. 012528 CSA Class No. 3211-03 NA Certification UL Listed, CSA certified
	<b>SL-L-R</b> 205313				
	<b>SL-L-G</b> 205314				
	<b>SL-L-Y</b> 205315				
	<b>SL-L-B</b> 205316				



	Rated operational voltage  $U_e$ V	Color	Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America  
<b>Flashing light module</b>						
Without light element, $f \approx 1$ Hz						
	24 V AC/DC (+10 %/-15 %)		<b>SL-BL24-W</b> 205317		1 off  	Product Standards IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking E29184 NKCR UL File No. UL CCN CSA File No. CSA Class No. NA Certification 012528 3211-03 UL Listed, CSA certified
			<b>SL-BL24-R</b> 205318			
			<b>SL-BL24-Y</b> 205320			
			<b>SL-BL24-G</b> 205319			
			<b>SL-BL24-B</b> 205321			
	110 - 130 V AC		<b>SL-BL130-W</b> 205322			
			<b>SL-BL130-R</b> 205323			
			<b>SL-BL130-G</b> 205324			
			<b>SL-BL130-Y</b> 205325			
			<b>SL-BL130-B</b> 205326			
	230 V AC		<b>SL-BL230-W</b> 205327			
			<b>SL-BL230-R</b> 205328			
			<b>SL-BL230-G</b> 205329			
			<b>SL-BL230-Y</b> 205330			
			<b>SL-BL230-B</b> 205331			
<b>Acoustic module</b>						
IP20						
	Continuous tone $f = 2750$ Hz In 60 cm spacing 12 V: 77 dB 24 V: 83 dB 36 V: 90 dB	12 - 36 V AC/DC 8 - 12 mA		<b>SL-A24</b> 205341	1 off  	Product Standards IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking E29184 NKCR UL File No. UL CCN CSA File No. CSA Class No. NA Certification 012528 3211-03 UL Listed, CSA certified
	Continuous tone $f = 2750$ Hz In 60 cm spacing 110 V: 72 dB 230 V: 78 dB	110-230 V AC/DC 4 - 8 mA		<b>SL-A110-230</b> 205342		
	Pulsed tone 5 Hz with $f = 2750$ Hz In 60 cm spacing 12 V: 61 dB 24 V: 66 dB 36 V: 77 dB	12 - 36 V AC/DC 8 - 12 mA		<b>SL-AP24</b> 205343		
	Pulsed tone 5 Hz with $f = 2750$ Hz In 60 cm spacing 110 V: 67 dB 230 V: 73 dB	110-230 V AC/DC 4 - 8 mA		<b>SL-AP110-230</b> 205344		



	Rated operational voltage	Color	Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America
	U <sub>e</sub> V					
<b>Strobe light module</b>						
With flash tube, 1 Ws, f ≈ 1 Hz						
	24 V AC/DC (+10 ... -15 %) I <sub>emax</sub> = 190 mA		<b>SL-FL24-W</b> 205332		1 off 	Product Standards IEC/EN 60947-5; UL <sup>®</sup> 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking E29184 NKCR UL File No. UL CCN CSA File No. CSA Class No. NA Certification 012528 3211-03 UL Listed, CSA certified
			<b>SL-FL24-R</b> 205333			
			<b>SL-FL24-Y</b> 205334			
	110 - 130 V AC I <sub>emax</sub> = 31 mA		<b>SL-FL130-W</b> 205335			
			<b>SL-FL130-R</b> 205336			
			<b>SL-FL130-Y</b> 205337			
	230 V AC I <sub>emax</sub> = 28 mA		<b>SL-FL230-W</b> 205338			
			<b>SL-FL230-R</b> 205339			
			<b>SL-FL230-Y</b> 205340			





	Lifespan EN 60064 at $t_a = +25\text{ }^\circ\text{C}$	Rated operational voltage	Color	Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America 
	$t_{\text{average}}$ (AC) h	$U_e$ V					
<b>Accessories</b>							
<b>Stand with spacer</b>							
	100 mm, plastic, black	-	-	-	<b>SL-F100</b> 205345	1 off 	Product Standards IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking UL File No. E29184 UL CCN NKCR CSA File No. 012528 CSA Class No. 3211-03 NA Certification UL Listed, CSA certified
	100 mm, metal	-	-	-	<b>SL-F100M</b> 265359		
	250 mm, plastic, black	-	-	-	<b>SL-F250</b> 205346		
	250 mm, metal	-	-	-	<b>SL-F250M</b> 268925		
	400 mm, metal	-	-	-	<b>SL-F400</b> 215275		
	800 mm, metal	-	-	-	<b>SL-F800</b> 215276		
<b>Fixing bracket 90°, for wall mounting</b>							
	Metal	-	-	-	<b>SL-FW</b> 205347	1 off 	Product Standards IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking UL File No. E29184 UL CCN NKCR CSA File No. 012528 CSA Class No. 3211-03 NA Certification UL Listed, CSA certified
<b>Filament bulb BA 15d, 5 - 7 W</b>							
	2000	24 V	-	<b>SL-L24</b> 205348	1 off 	Product Standards IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking UL File No. E29184 UL CCN NKCR CSA File No. 012528 CSA Class No. 3211-03 NA Certification UL Listed, CSA certified	
	5000	110 - 130 V	-	<b>SL-L130</b> 205349			
	5000	200 - 260 V	-	<b>SL-L230</b> 205350			
<b>Multiple LED BA 15d</b>							
	100000	18 - 30 V AC/DC 50/60 Hz 13 - 50 mA		<b>SL-LED-W</b> 215278	1 off 	Product Standards IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking UL File No. E29184 UL CCN NKCR CSA File No. 012528 CSA Class No. 3211-03 NA Certification UL Listed, CSA certified	
				<b>SL-LED-R</b> 215279			
				<b>SL-LED-G</b> 215280			
				<b>SL-LED-Y</b> 215281			
				<b>SL-LED-B</b> 215282			
	100000	110 - 230 V AC, 50/60 Hz 9 - 17 mA		<b>SL-LED230-W</b> 285532			
				<b>SL-LED230-R</b> 285533			
				<b>SL-LED230-G</b> 285534			
				<b>SL-LED230-Y</b> 285535			
				<b>SL-LED230-B</b> 285536			
<b>Gasket set</b> For increasing the degree of protection type to IP65 (Not for the acoustic device) for 3 modules $\triangle$ 4 units							
	-	-	-	-	<b>SL-IP65</b> 215277	1 off 	Product Standards IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking UL File No. E29184 UL CCN NKCR CSA File No. 012528 CSA Class No. 3211-03 NA Certification UL Listed, CSA certified Degree of Protection UL/CSA Type 4X



**Technical data**

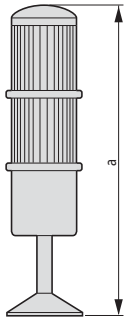
			SL signal towers
<b>General</b>			
Standards			IEC/EN 60947, VDE 0660
Protection type, IEC/EN 60529			IP54, IP65 with SL-IP65 gasket, IP20 with acoustic module SL-A
Climatic proofing			Damp heat, constant as per IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Mounting position			Any
Mechanical shock resistance to IEC 60068-2-27 Shock duration 11 ms, half-sinusoidal		g	> 15
<b>Terminal capacity</b>			
Solid		mm <sup>2</sup>	0.75 - 2.5
Stranded		mm <sup>2</sup>	0.5 - 2.5
<b>Contacts</b>			
Rated impulse withstand voltage	$U_{imp}$	V AC	4000
Rated insulation voltage	$U_i$	V	250
Overvoltage category/pollution degree			III/3

			SL-B-ASI base module for signal towers
<b>General</b>			
Connection to AS-Interface cable			Screw terminal on printed circuit board
Addressing			Via connection to AS-Interface cable
Maximum total current		mA	≤ 250
Energy supply			Completely from the AS-Interface cable
Ambient temperature		°C	-25 - +55
Status LEDs on the printed circuit board			Status. Output Q0/function module position 1: green Status. Output Q1/function module position 2: green Status. Output Q2/function module position 3: green AS-Interface power line: green AS-Interface error, AS-Interface master failure: red
Profile			S-9.A.E



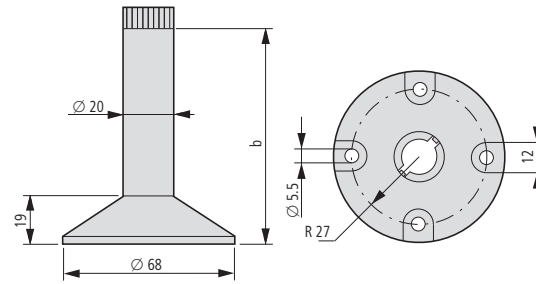
**Dimensions**

**Signal towers**  
SL-100-...



Number of modules	a
1	227
2	289
3	351
4	413
5	475

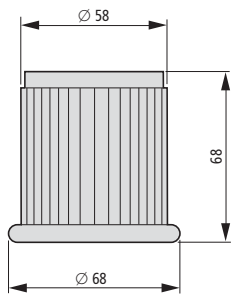
**Stand with spacer**  
SL-F...



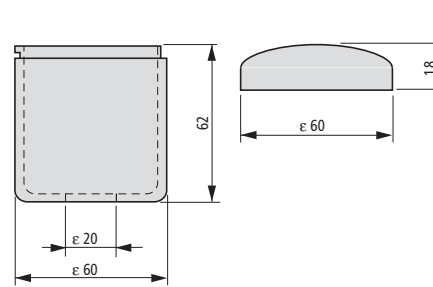
	b
SL-F100	85
SL-F250	235
SL-F400	402
SL-F800	802

**Modules**

- SL-L...
- SL-BL...
- SL-A...
- SL-FL...



**Basic modules with cover**  
SL-(C)B...



**Fixing bracket**

SL-FW

