

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)

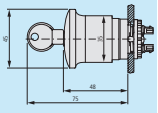
FAK foot and palm switches
High protection type IP69 +++ Suitable for use in rough environments +++ Extremely robust

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

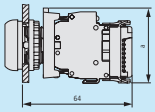
Technical data

RMQ-Titan pilot devices 2/55

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

System overview

SL signal towers 2/102

Ordering

Complete units, modules 2/104

Modules 2/105

Accessories 2/107

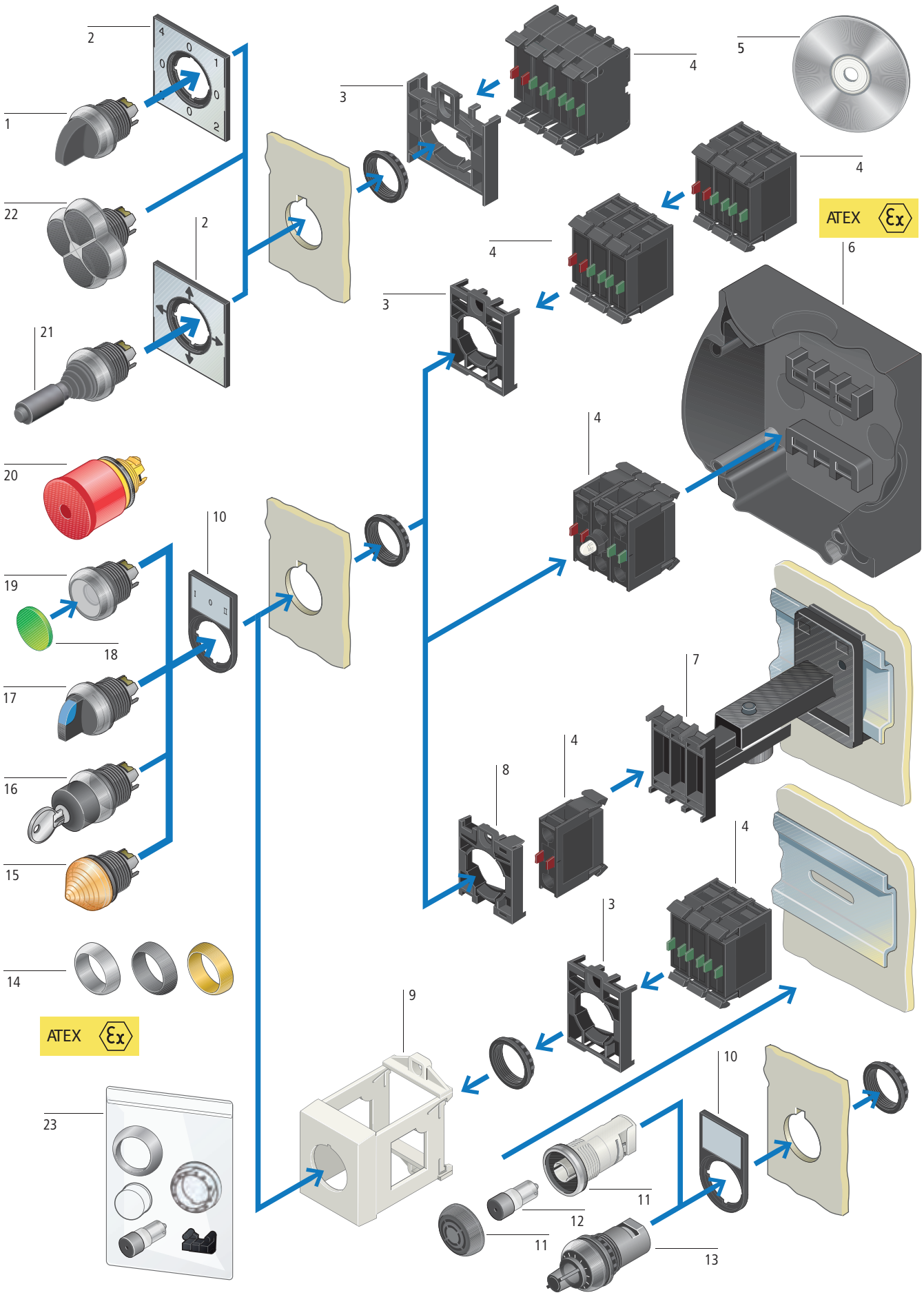
Technical data

SL signal towers 2/108

Dimensions

SL signal towers 2/109

System overview



4-way selector switch actuators 1
4 positions
With rotary head or thumb-grip
Maintained function 0-1-0-2-0-3-0-4
→ Page 2/20

Labels with label mounts 2
Colour: aluminium-coloured
Labels: inscribed, can be inscribed individually, blank
→ Page 2/25

Fixing adapters 3
For flush mounting plates
for contact and LED elements, M22-A...
for contact elements, M22-A4
→ Page 2/31

(Double) contact elements 4
Normally closed contact (NC) and normally open contact (N/O)
Universalcontacts suitable for use with electronic devices
Positive opening safety function according to IEC/EN 60947-5-1
Maximum 2 levels, each with 3 contact elements
→ Page 2/31

LED elements 4
Voltage range:
12 – 30 V AC/DC
85 – 264 V AC
→ Page 2/33

Labeling with convenience 5
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:
www.moeller.net/de/support,
Keyword: "Labeleditor"

Surface mounting enclosure 6
Surface mounting enclosures IP67 up to 6 mounting locations
Surface mounting enclosures IP55 up to 12 mounting locations
Flush mounting panel, IP54, up to 6 mounting locations
Shrouds IP40 for flush mounting panels
→ Page 2/45

Telescopic clip 7
For mounting depth compensation when rear mounting devices in CI enclosures, CI-K enclosures and cabinets
→ Page 2/48

Centring adapter 8
For centring of actuator and indicator elements when using telescopic clip
→ Page 2/48

IVS top-hat rail adapter 9
for fitting directly onto IEC/EN 60175 mounting rail
→ Page 2/49

Label mounts 10
For insert labels
Colour: black
Insert labels, aluminium-colored, with and without inscription, can be engraved
→ Page 2/35

Acoustic device 11
Protection type IP40
without buzzer
→ Page 2/27

Buzzer 12
Continuous tone, pulsed tone
18 - 30 V AC/DC
→ Page 2/27

Potentiometer 13
Resistance values from 470 kΩ - 1 MΩ
3 individual connections
With screw terminals
→ Page 2/27

Bezels 14
- Silver
- Black
- 24 carat gold can only be ordered via M22-Combination

→ Page 2/48

Indicator lights 15
Flat and conical designs
Colours: white, green, red, yellow, blue
→ Page 2/26

Key-operated buttons 16
2 and 3 positions
Programmable maintained/momentary function and key withdraw
Suitable for master key systems
→ Page 2/21

Selector switch actuators 17
2 and 3 positions
With rotary head, thumb-grip
Programmable maintained/momentary function
Illuminated selector switch actuators with transparent thumb-grip
Colours: white, green, red, yellow, blue
→ Page 2/20

Button plates/Button lenses 18
Laser inscription for pushbutton actuators and mushroom-headed pushbutton
Button lenses for illuminated pushbutton actuators and indicator lights, flat
With standard texts and symbols or with custom labelling
→ Page 2/36

Pushbutton actuators 19
Momentary and maintained
Flat and extended
with and without guard ring
Mushroom-headed pushbutton
Double actuators
Colours: white, green, red, yellow, blue, black
Illuminated pushbutton actuators
Colours: white, green, red, yellow, blue
→ Page 2/17

Emergency stop pushbuttons/ Emergency switching off pushbuttons 20
Tamper-proof according to ISO 13850/EN 418
Can be secured by sealable shroud
Additional labels, with and without inscription
→ Page 2/8

Joystick 21
4 positions
→ Page 2/24

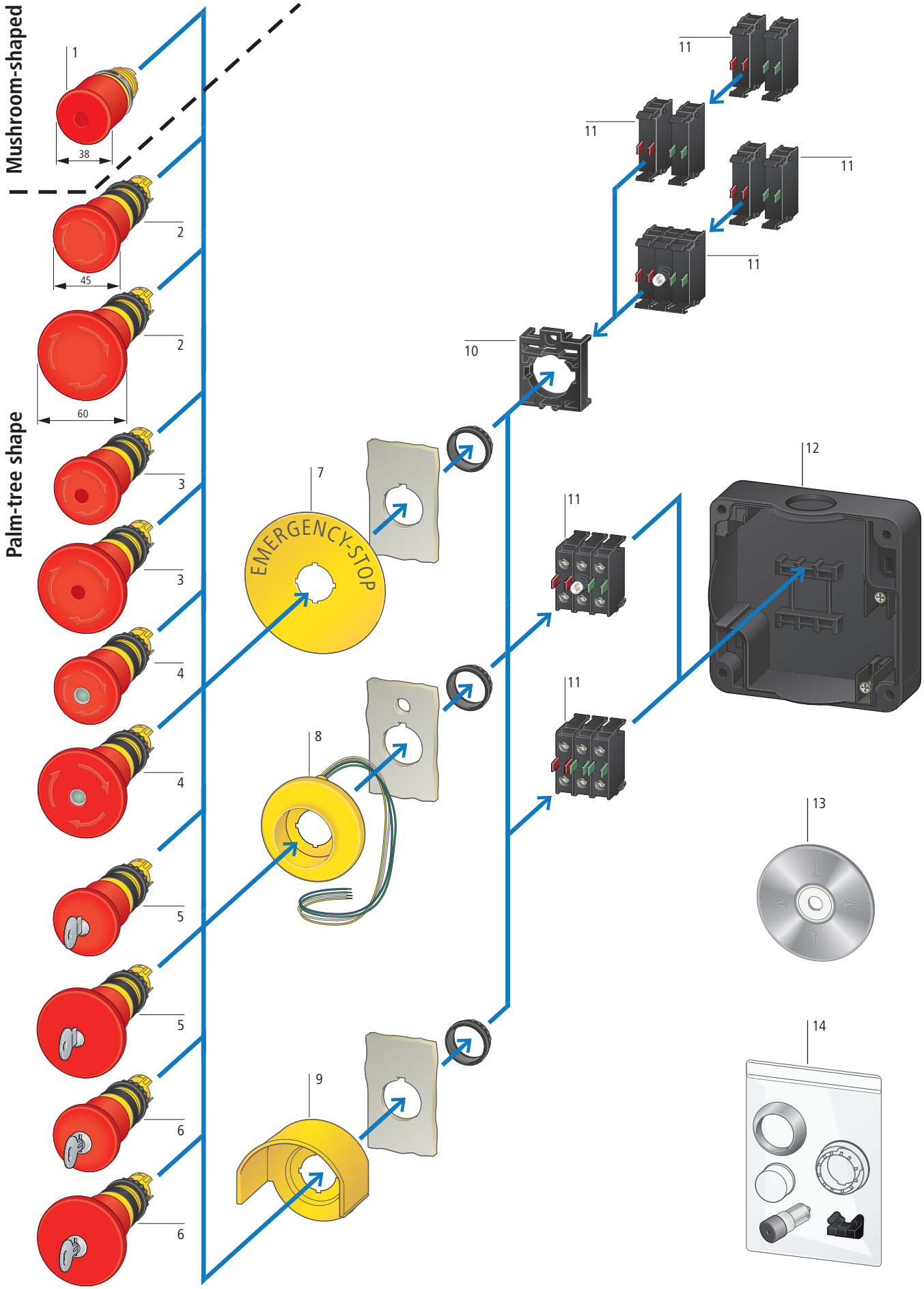
4-way pushbutton 22
4 positions
Pushbutton actuators, momentary
→ Page 2/24

Accessories devices 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



Emergency stop pushbuttons Emergency switching off pushbuttons 1

Mushroom-shaped

- 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

Emergency stop pushbuttons Emergency switching off label 2

Palm-tree shape

- 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

Emergency stop pushbuttons Emergency switching off pushbuttons 3

Palm-tree shape

- 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

Emergency stop pushbuttons Emergency switching off pushbuttons 4

Palm-tree shape

- 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

Emergency stop pushbuttons Emergency switching off pushbuttons 5

Palm-tree shape

- 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

Emergency stop pushbuttons Emergency switching off pushbuttons 6

Palm-tree shape

- 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

Emergency stop labels Emergency switching off label 7

- Round, square, and rectangular types
- Single-language, multi-language, can be individually labeled

→ Page 2/11

Illuminated ring 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

Guardring 9

- against accidental actuation
- for 38 mm and 45 mm designs

→ Page 2/10

Mounting adapter 10

- For flush mounting plates
- for contact and LED elements, M22-A...
- for contact elements, M22-A4

→ Page 2/31

Contact elements, indicator lights 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

Surface mounting enclosure 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

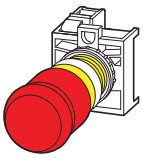
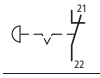
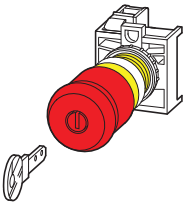
→ Page 2/45

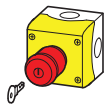
Labeling with convenience 13

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:
www.moeller.net/de/support
Keyword: “Labeleditor”

Accessories 14

→ Page 2/48

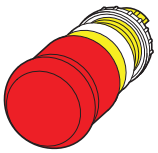
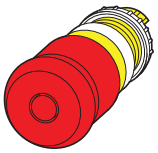
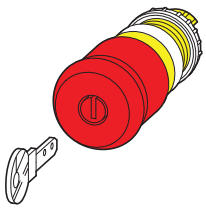
	Contact configuration: ⊖ = Safety function by positive opening according to IEC/EN 60947-5-1 N/O = normally open contact NC = normally closed contact		Circuit symbol	Protection type	Bezel: Silver **Part no.** Article no.	**Price** See price list	Std. pack	**Notes**
Emergency switching-off actuators								
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	**M22-PV/K01** 216515		5 off	
	1 N/O	1 NC ⊖		IP66, IP69K	**M22-PV/K11** 216516		5 off	
Emergency switching-off key-release mushroom								
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	**M22-PVS/K01** 216514		5 off	

	Number of locations Number	Contact configuration: ⊖ = Safety function by positive opening according to IEC/EN 60947-5-1 N/O = normally open	 NC = normally closed	Circuit symbol	Enclosure top	RAL value	Protection type	Bezel: silver **Part no.** Article no.	**Price** See price list	Std. pack
Emergency switching-off actuators										
Tamper-proof according to ISO 13850/EN 418 Pull to release	–	–	2 NC ⊖			RAL 1004	IP66, IP69K	**M22-PV/KC02/IY** 216524		1 off
	–	1 N/O	1 NC ⊖			RAL 1004	IP66, IP69K	**M22-PV/KC11/IY** 216525		1 off
Emergency switching-off key-release mushroom										
with 1 key Lock mechanism MS1	1	1 N/O				RAL 1004	IP67, IP69K	**M22-PVS/KC11/IY** 216523		1 off
										
customized complete unit										
To order use form F0315 → Data sheet in Online Catalog * = Freely selectable customer identification or stock no.; max. 10 characters.								**M22-COMBINATION-*** 228298		1 off

Notes

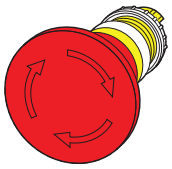
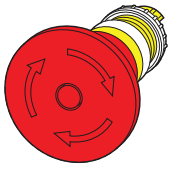
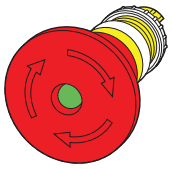
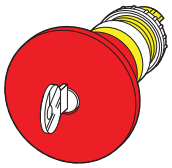
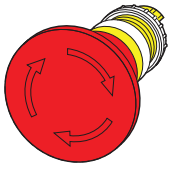
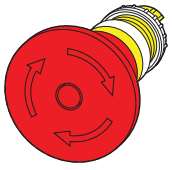
Information relevant for export to North America

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

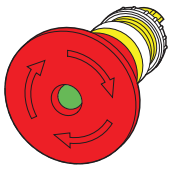
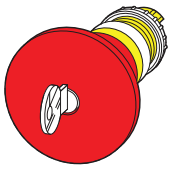
	Illumination		Colour mushroom head	RAL no.	Protection type	Bezel: silver **Part no.** Article no.	**Price** See price list	Std. pack
Emergency stop pushbutton/Emergency switch-off actuators								
Release by pulling Mushroom button diameter 38 mm ATEX → Engineering								
	Non-illuminated	Pull to release	●	RAL 3000	IP66, IP69K	**M22-PV** 216876		5 off
	Non-illuminated	Pull to release	●	RAL 3000	IP66, IP69K	**M22-PV-GVP** 216877		50 off
	Illuminated with LED element	Pull to release	●	RAL 3000	IP66, IP69K	**M22-PVL** 216878		5 off
Emergency stop pushbutton/Emergency switch-off actuators								
Release by turning Mushroom button diameter 38 mm ATEX → Engineering								
	Non-illuminated	Turn to release	●	RAL 3000	IP67, IP69K	**M22-PVT** 263467		5 off
	Illuminated with LED element	Turn to release	●	RAL 3000	IP67, IP69K	**M22-PVLT** 263469		5 off
Emergency stop pushbutton/Emergency switch-off actuators								
Release by turning with key Mushroombutton diameter 38 mm With 1 key ATEX → Engineering								
	Non-illuminated	Individual lock mechanism MS1 Not suitable for master key systems	●	RAL 3000	IP67, IP69K	**M22-PVS** 216879		5 off
	Non-illuminated	Individual lock mechanism MS1 - MS20 not suitable for master key systems *→1, 2, 3, ...20	●	RAL 3000	IP67, IP69K	**M22-PVS-MS*** 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	**M22-PVS-SA(*)-*** 104826		1 off

Information relevant for export to North America

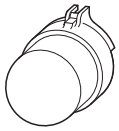
Product Standards	IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking
UL File No.	E29184
UL CCN	NKCR
CSA File No.	012528
CSA Class No.	3211-03
NA Certification	UL Listed, CSA certified
Degree of Protection	UL/CSA Type 3R, 4X, 12, 13

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

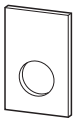
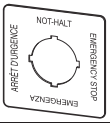
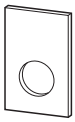
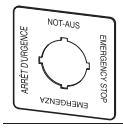
Information relevant for export to North America NA Certification Request filed for UL and CSA

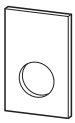
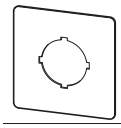
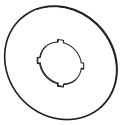
	Illumination		Colour mushroom head	RAL no.	Protection type	Bezel: silver **Part no.** Article no.	**Price** See price list	Std. pack
Emergency stop pushbutton actuators								
with mechanical switch position indication Release by turning Palm-shaped, diameter 60 mm								
	Non-illuminated	Switch position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

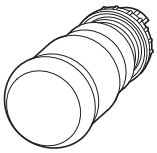
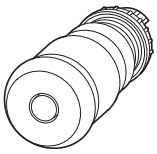
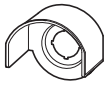
Information relevant for export to North America NA Certification Request filed for UL and CSA

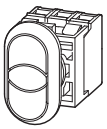
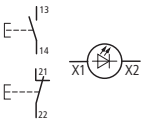
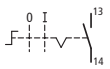
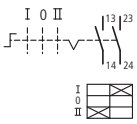
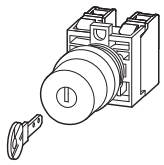
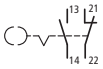
	RAL value	Protection type	**Part no.** Article no.	**Price** See price list	Std. pack	**Information relevant for export to North America**
Guard-ring						
Protection against accidental actuation						
	RAL 1004	IP65	**M22-XGPV** 231273		1 off	Product Standards: IEC/EN 60947-5; UL 508; CSA-C22.2 No. 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
Sealable shroud						
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	**M22-PL-PV** 216397		2 off	UL/CSA certification not required
LED-Illuminated ring						
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)			**M22-XPV60-Y-24** 121477		1 off	NA Certification: Request filed for UL and CSA
60 mm diameter 120 V AC One group of 8 LEDs (in series)			**M22-XPV60-Y-120** 121476		1 off	
60 mm diameter 230 V AC One group of 8 LEDs (in series)			**M22-XPV60-Y-230** 138280		1 off	
Customized complete unit						
→ Engineering To order use form F0315 → Data sheet in Online Catalog * = Freely selectable customer identification or stock no.; max. 10 characters.						
			M22-COMBINATION-* 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**
Emergency-stop labels, IP66								
ATEX → Engineering								
Lettering black								
	Emergency-stop	en	●	RAL 1004	**M22-XZK1-D99** 121089		10 off	UL/CSA certification not required
	Arresto di emergenza	it	●	RAL 1004	**M22-XZK1-I99** 121370			
	HÄTÄPYSÄYTYS	fi	●	RAL 1004	**M22-XZK1-SF99** 121371			
	Quadrilingual	de, en, fr, it	●	RAL 1004	**M22-XYK11** 121373			
	Quadrilingual	de, en, fr, it	●	RAL 1004	**M22-XAK11** 121085			
	Quadrilingual	de, en, es, pt	●	RAL 1004	**M22-XAK12** 121086			
	Quadrilingual	de, en, nl, fr	●	RAL 1004	**M22-XAK13** 121087			
	Quadrilingual	en, sv, fi, da	●	RAL 1004	**M22-XAK14** 121088			
	Quadrilingual	de, en, fr, it	●	RAL 1004	**M22-XBK11** 121372			
Emergency switching off label								
ATEX → Engineering								
Lettering black								
	NOT-AUS	de	●	RAL 1004	**M22-XZK-D99** 216471		10 off	UL/CSA certification not required
	Emergency-Stop	en	●	RAL 1004	**M22-XZK-GB99** 216472			
	Arrêt d'urgence	fr	●	RAL 1004	**M22-XZK-F99** 216473			
	EMERGENZA	it	●	RAL 1004	**M22-XZK-I99** 216474			
	NOODSTOP	nl	●	RAL 1004	**M22-XZK-NL99** 216475			
	NÖDSTOPP	sv	●	RAL 1004	**M22-XZK-S99** 216476			
	HÄTÄ-SEIS	fi	●	RAL 1004	**M22-XZK-SF99** 216477			
	NØDSTOP	da	●	RAL 1004	**M22-XZK-DK99** 216478			
	–	de, en, fr, it	●	RAL 1004	**M22-XYK1** 216484			
	–	de, en, fr, it	●	RAL 1004	**M22-XAK1** 216465			
	–	de, en, es, pt	●	RAL 1004	**M22-XAK2** 216466			
	–	de, en, nl, fr	●	RAL 1004	**M22-XAK3** 216467			
	–	en, sv, fi, da	●	RAL 1004	**M22-XAK4** 216468			
	Quadrilingual	de, en, fr, it	●	RAL 1004	**M22-XBK1** 216483			

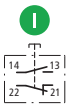
	Inscription	Language		RAL value	**Part no.** Article no.	**Price** See price list	Std. pack	**Information relevant for export to North America**
Emergency-Stop labels								
	–	–	●	RAL 1004	**M22-XZK-*** 216479		10 off	UL/CSA certification not required
	Blank	–	●	RAL 1004	**M22-XZK** 216470			
	With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

		Colour mushroom head	RAL no.	Protec-tion type	**Part no.** Article no.	**Price** See price list	Std. pack	**Information relevant for export to North America**
Stop pushbuttons								
ATEX → Engineering								
	Non-illuminated, pull to release	●	RAL 9005	IP66, 69K	**M22S-PV** 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	**M22S-PVT** 271499			
	Illuminated, pull to release	●	RAL 9005	IP66, 69K	**M22S-PVL** 230962			
	Illuminated, turn to release	●	RAL 9005	IP67, 69K	**M22S-PVLT** 271540			
Guard-ring for Stop pushbutton								
	–	–	–	IP67, 69K	**M22G-XGPV** 271610		1 off	UL/CSA certification not required

		Button plate	Contact configuration: ⊖ = Safety function by positive opening according to IEC/EN 60947-5-1 N/O = normally open contact	NC = normally closed	Circuit Symbol	Protection type	Bezel: silver **Part no.** Article no.	**Price** See price list	Std. pack
Pushbutton actuator									
Flat actuator									
			–	1 NC ⊖		IP67, IP69K	**M22-D-R-X0/K01** 216510		5 off
			1 N/O	–		IP67, IP69K	**M22-D-G-X1/K10** 216512		5 off
Double actuator with LED element ancilliary lens white									
85 - 264 V AC									
			1 N/O	1 NC ⊖		IP66	**M22-DDL-GR-X1/X0/K11/230-W** 216509		5 off
Selector switch actuators									
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	**M22-WRK/K10** 216518		5 off
	3 positions, maintained	–	2 N/O	–		IP66	**M22-WRK3/K20** 216520		5 off
Key-operated button									
Maintained/momentary function and key withdraw convertible with coding adapters M22-XC → Engineering 2 positions, maintained MS1 lock mechanism, with 1 key									
	–	–	1 NC ⊖			IP66	**M22-WRS/K11** 216517		5 off

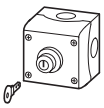
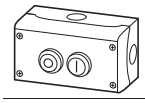
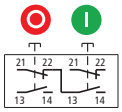
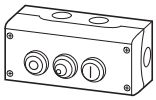
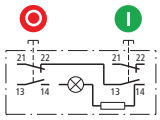
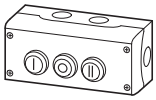
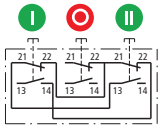
Information relevant for export to North America

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.				
Pushbutton actuator										
Flush actuator										
	1	1 N/O	1 NC ⊖			RAL 7035	IP67, IP69K	**M22-D-G-X1/KC11/I** 216522		1 off
	1	1 N/O	1 NC ⊖			RAL 7035	IP67, IP69K	**M22-D-R-X0/KC11/I** 216521		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 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

Key-operated button										
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	**M22-WRS/KC11/I** 216526		1 off
Two-way pushbutton station										
Without indicator light										
Without indicator light 	2	2 N/O	2 NC ⊖			RAL 7035	IP67, IP69K	**M22-I2-M1** 216529		1 off
With indicator light, white LED element 85 - 264 V AC 	2	2 N/O	2 NC ⊖			RAL 7035	IP67, IP69K	**M22-I3-M2** 216533		1 off
Three-way pushbutton station										
	3	3 N/O	3 NC ⊖			RAL 7035	IP67, IP69K	**M22-I3-M1** 216532		1 off
ustomized complete unit										
→ Engineering To order use form FO315 → Data sheet in Online Catalog * = Freely selectable customer identification or stock no.; max. 10 characters.								**M22-COMBINATION-*** 228298		1 off

Information relevant for export to North America

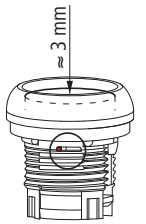
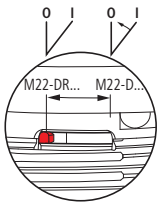
Product Standards	IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking
UL File No.	E29184
UL CCN	NKCR
CSA File No.	012528
CSA Class No.	3211-03
NA Certification	UL Listed, CSA certified
Degree of Protection	UL/CSA Type 3R, 4X, 12, 13

Construction type	Button plate	Bezel: silver **Part no.** Article no.	**Price** See price list	Bezel: black **Part no.** Article no.	**Price** See price list	Std. pack	**Information relevant for export to North America**
Double pushbutton actuators with indicator light, IP66 ATEX → Engineering White acillary lens Momentary Bezel gold-plated → Page 2/48 							
Pushbuttons and indicator lights protruding		**M22-DDL-GR** 216698		**M22S-DDL-GR** 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
	I 0	**M22-DDL-GR-X1/X0** 216700		**M22S-DDL-GR-X1/X0** 216701			
	START STOP	**M22-DDL-GR-GB1/GB0** 216702		**M22S-DDL-GR-GB1/GB0** 216703			
		M22-DDL-WS 216704		**M22S-DDL-WS** 216705			
	I 0	**M22-DDL-WS-X1/X0** 216706		**M22S-DDL-WS-X1/X0** 216707			
	START STOP	**M22-DDL-WS-GB1/GB0** 216708		**M22S-DDL-WS-GB1/GB0** 216709			
	↑ ↓	**M22-DDL-S-X7/X7** 216710		**M22S-DDL-S-X7/X7** 216711			
	+ –	**M22-DDL-S-X4/X5** 218145		**M22S-DDL-S-X4/X5** 218146			
	With customized inscription to order via Labeleditor → Notes	**M22-DDL-*-*-*** 226770		**M22S-DDL-*-*-*** 230350			
Pushbuttons and indicator lights flat	I 0	**M22-DDLF-GR-X1/X0** 284814		**M22S-DDLF-GR-X1/X0** 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
	I 0	**M22-DDLF-WS-X1/X0** 284816		**M22S-DDLF-WS-X1/X0** 284817			
	With customized inscription to order via Labeleditor → Notes	**M22-DDLF-*-*-*** 284818		**M22S-DDLF-*-*-*** 284819			
Pushbutton I and indicator light flat, pushbutton 0 protruding	I 0	**M22-DDLM-GR-X1/X0** 284830		**M22S-DDLM-GR-X1/X0** 284831		5 off	
	I 0	**M22-DDLM-WS-X1/X0** 284832		**M22S-DDLM-WS-X1/X0** 284833			
	With customized inscription to order via Labeleditor → Notes	**M22-DDLM-*-*-*** 107062					

Notes

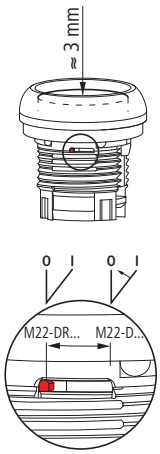
1st wildcard (*) = Colour of button plate
B = blue, G = green, R = red, B = black
B/S = top blue/bottom black
G/R = top green/bottom red
G/S = top green/bottom black
W/S = top white/bottom black.

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**
Pushbutton actuators IP67, IP69K								
ATEX → Engineering								
Bezel gold-plated → Page 2/48								
Actuator flat momentary 	●	**M22-D-S** 216590		10 off	**M22S-D-S** 216591		10 off	–
	○	**M22-D-W** 216592			**M22S-D-W** 216593			–
	●	**M22-D-R** 216594			**M22S-D-R** 216595			–
	●	**M22-D-G** 216596			**M22S-D-G** 216597			–
	●	**M22-D-Y** 216598			**M22S-D-Y** 216599			–
	●	**M22-D-B** 216600			**M22S-D-B** 216601			–
	●	**M22-D-GR** 132671			**M22S-D-GR** 132672			–
	–	**M22-D-X** 216602			**M22S-D-X** 216604			–
	–	**M22-D-X-GVP** 216603		50 off				–
	◎	**M22-D-R-X0** 216605		10 off	**M22S-D-R-X0** 216606		10 off	–
	I	**M22-D-G-X1** 216607			**M22S-D-G-X1** 216608			–
	◎	**M22-D-S-X0** 216609			**M22S-D-S-X0** 216610			–
	I	**M22-D-W-X1** 216611			**M22S-D-W-X1** 216612			–
Actuator flat, maintained 	●	**M22-DR-S** 216613		5 off	**M22S-DR-S** 216614		5 off	**Programmable maintained/momentary pushbutton function**  
	○	**M22-DR-W** 216615			**M22S-DR-W** 216616			
	●	**M22-DR-R** 216617			**M22S-DR-R** 216618			
	●	**M22-DR-G** 216619			**M22S-DR-G** 216620			
	●	**M22-DR-Y** 216621			**M22S-DR-Y** 216622			
	●	**M22-DR-B** 216623			**M22S-DR-B** 216624			
	–	**M22-DR-X** 216625			**M22S-DR-X** 216627			
	–	**M22-DR-X-GVP** 216626		50 off				
	◎	**M22-DR-R-X0** 216628		5 off	**M22S-DR-R-X0** 216629		5 off	
	I	**M22-DR-G-X1** 216630			**M22S-DR-G-X1** 216631			
	◎	**M22-DR-S-X0** 216632			**M22S-DR-S-X0** 216633			
	I	**M22-DR-W-X1** 216634			**M22S-DR-W-X1** 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 **Part no.** Article no.	**Price** See price list	Std. pack	Bezel: black **Part no.** Article no.	**Price** See price list	Std. pack	**Notes**
Pushbutton actuators IP67, IP69K								
ATEX → Engineering								
Bezel gold-plated → Page 2/48								
Actuator extended, momentary 	●	**M22-DH-S** 216636		5 off	**M22S-DH-S** 216637		5 off	–
	○	**M22-DH-W** 216638			**M22S-DH-W** 216639			–
	●	**M22-DH-G** 216643			**M22S-DH-G** 216645			–
	●	**M22-DH-R** 216641			**M22S-DH-R** 216642			–
	●	**M22-DH-Y** 216646			**M22S-DH-Y** 216647			–
	●	**M22-DH-B** 216649			**M22S-DH-B** 216650			–
	◎	**M22-DH-R-X0** 216655			**M22S-DH-R-X0** 216656			–
	I	**M22-DH-G-X1** 216657			**M22S-DH-G-X1** 216658			–
	◎	**M22-DH-S-X0** 216659			**M22S-DH-S-X0** 216660			–
	I	**M22-DH-W-X1** 216661			**M22S-DH-W-X1** 216662			–
Actuator extended, maintained 	●	**M22-DRH-S** 216663		5 off	**M22S-DRH-S** 216664		5 off	**Programmable maintained/momentary pushbutton function** 
	○	**M22-DRH-W** 216665			**M22S-DRH-W** 216666			
	●	**M22-DRH-R** 216667			**M22S-DRH-R** 216668			
	●	**M22-DRH-G** 216669			**M22S-DRH-G** 216670			
	●	**M22-DRH-Y** 216671			**M22S-DRH-Y** 216672			
	●	**M22-DRH-B** 216673			**M22S-DRH-B** 216674			
	◎	**M22-DRH-R-X0** 216675			**M22S-DRH-R-X0** 216676			
	I	**M22-DRH-G-X1** 216677			**M22S-DRH-G-X1** 216678			
	◎	**M22-DRH-S-X0** 216679			**M22S-DRH-S-X0** 216680			
	I	**M22-DRH-W-X1** 216681			**M22S-DRH-W-X1** 216682			
Pushbuttons with guard ring, momentary, IP66, IP69K								
ATEX → Engineering								
Bezel gold-plated → Page 2/48								
	–	**M22-DG-X** 220921		5 off				–

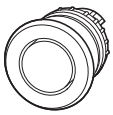
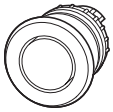
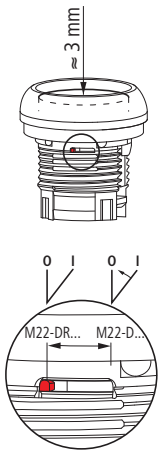
Information relevant for export to North America

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

Mushroom-headed pushbuttons, IP67, IP69K

ATEX → Engineering

Bezel gold-plated → Page 2/48

	Button plate	Colour of mushroom head	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**
Momentary 	●	●	**M22-DP-S** 216712		5 off	**M22S-DP-S** 216713		5 off	–
	●	●	**M22-DP-R** 216714			**M22S-DP-R** 216715			–
	●	●	**M22-DP-G** 216716			**M22S-DP-G** 216717			–
	●	●	**M22-DP-Y** 216718			**M22S-DP-Y** 216719			–
	◎	●	**M22-DP-R-X0** 216720			**M22S-DP-R-X0** 216721			–
	I	●	**M22-DP-G-X1** 216722			**M22S-DP-G-X1** 216723			–
	◎	●	**M22-DP-S-X0** 216724			**M22S-DP-S-X0** 216725			–
	I	●	**M22-DP-W-X1** 216726			**M22S-DP-W-X1** 216727			–
	–	●	**M22-DP-S-X** 216728			**M22S-DP-S-X** 216730			–
	–	●	**M22-DP-R-X** 216731			**M22S-DP-R-X** 216733			–
	–	●	**M22-DP-G-X** 216734			**M22S-DP-G-X** 216736			–
	–	●	**M22-DP-Y-X** 216737			**M22S-DP-Y-X** 216739			–
Maintained 	●	●	**M22-DRP-S** 216743		5 off	**M22S-DRP-S** 216744		5 off	**Programmable maintained/ momentary pushbutton function** 
	●	●	**M22-DRP-R** 216745			**M22S-DRP-R** 216746			
	●	●	**M22-DRP-G** 216747			**M22S-DRP-G** 216748			
	●	●	**M22-DRP-Y** 216749			**M22S-DRP-Y** 216750			
	◎	●	**M22-DRP-R-X0** 216751			**M22S-DRP-R-X0** 216752			
	I	●	**M22-DRP-G-X1** 216753			**M22S-DRP-G-X1** 216754			
	◎	●	**M22-DRP-S-X0** 216755			**M22S-DRP-S-X0** 216756			
	I	●	**M22-DRP-W-X1** 216757			**M22S-DRP-W-X1** 216758			
	–	●	**M22-DRP-S-X** 216759			**M22S-DRP-S-X** 216761			
	–	●	**M22-DRP-R-X** 216762			**M22S-DRP-R-X** 216764			
	–	●	**M22-DRP-G-X** 216765			**M22S-DRP-G-X** 216767			
	–	●	**M22-DRP-Y-X** 216768			**M22S-DRP-Y-X** 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