

RMQ-Titan, RMQ16 Control Circuit Devices, SL Signal Towers

The Moeller range of control circuit 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 finger print recognition system enables you to protect the sensitive areas of an installation from unauthorised persons without any problem.



RMQ16

- Extremely compact
- Installation in restricted space
- Customized laser inscription

Page 2/42



Foot and palm switches

- High degree of protection (IP69)
- Suitable for use in harsh environments
- Extremely robust

Page 2/6



RMQ-Titan

- Modern, ergonomic design
- 100 000 hours of LED illumination
- Customized laser inscription
- ATEX versions possible

Page 2/2



SL signal tower

- Optic and acoustic indication of machine states
- Flexible combination
- Simple mounting

Page 2/58



Finger print

- Simple and reliable access control using finger print technology
- For machines and systems
- Up to 100 finger prints can be stored

Page 2/16



RMQ-Titan control circuit devices



	Page
System overview	2/2
Ordering	2/4
Complete units for flush mounting	2/4
Complete units for surface mounting	2/5
Foot and palm switches	2/6
Emergency-Stop actuators	2/7
Emergency-Stop labels	2/8
Double actuators	2/9
Pushbutton actuators	2/10
Mushroom actuators	2/12
Selector switch actuators	2/13
Key-operated actuators	2/14
Finger print recognition system	2/16
Four-way operators, 4 positions	2/17
Indicator light	2/18
Potentiometers, acoustic indicators, illuminated push-buttons	2/19
Illuminated pushbuttons	2/20
Illuminated selector switch actuators	2/21
Fixing adapter, contact elements	2/22
LED elements	2/23
Additional button label mounts, insert plates	2/25
Button plates for pushbutton actuators	2/26
Button plates for mushroom actuators	2/29
Lenses for indicator lights	2/30
Button lenses for illuminated pushbutton actuator	2/32
Flush Mounting Panels, Shrouds	2/34
Surface mounting enclosures	2/35
AS-Interface, filament lamps, LED	2/36
Accessories	2/37
Engineering	2/40
Stay-put/spring-return, plunger bridge, Label editor	2/40
LED elements	2/41
Technical data	2/63
Dimensions	2/69

RMQ16 Control Circuit Devices

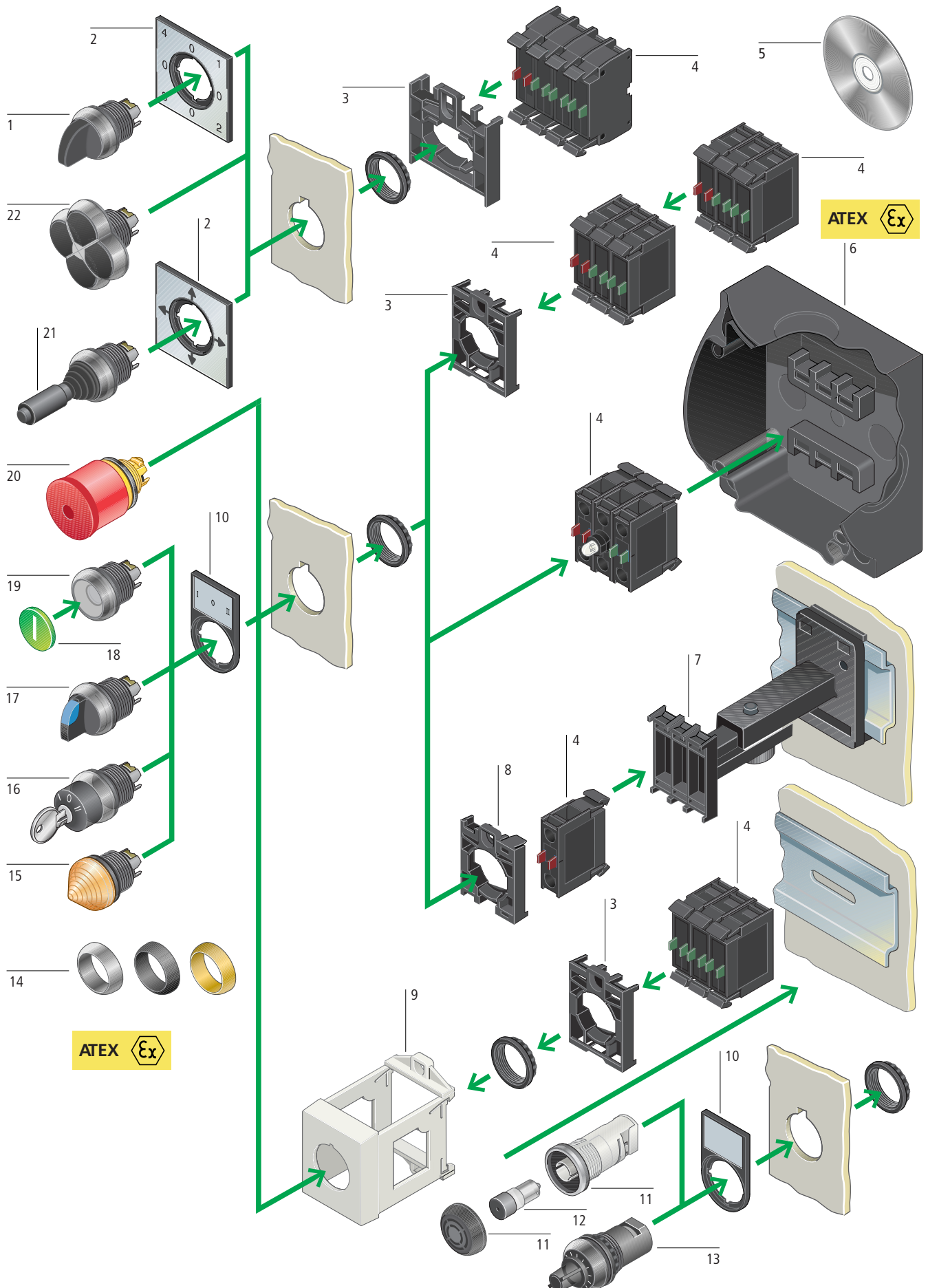


	Page
System overview	2/42
Ordering	2/44
Pushbutton actuators	2/44
Illuminated pushbuttons	2/45
Selector switches, illuminated selector switches	2/46
Illuminated selector switch actuators	2/47
Key-operated actuators	2/48
Indicator light	2/49
Emergency-Stop actuator, Emergency-Stop labels	2/50
Marking Plates	2/51
Insert plates, legend plate mounts	2/54
Enclosures	2/55
Accessories	2/57
Technical data	2/67
Dimensions	2/75

SL signal towers



	Page
System overview	2/58
Ordering	2/60
Complete units, modules	2/60
Components	2/61
Accessories	2/62
Technical data	2/68
Dimensions	2/77



4-way selector switch actuators	1
4 positions	
With rotary head or thumb-grip	
Stay-put function 0-1-0-2-0-3-0-4	
→ Page 2/13	
Labels with label mounts	2
Colour: aluminium-coloured	
Labels: inscribed, can be inscribed individually, blank	
→ Page 2/17	
Fixing adapters	3
For front mounting	
for contact and LED elements, M22-A...	
for contact elements, M22-A4	
→ Page 2/22	
Contact elements	4
Make contacts and break contacts	
Universal contacts 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 2/22	
LED elements	4
Voltage range:	
12 – 30 V AC/DC	
85 – 264 V AC	
→ Page 2/23	
Labelling with convenience	5
All button plates, indicator lights and additional button labels from the RMQ-Titan range can be laser inscribed with any text and symbol as required.	
Download: www.moeller.net/de/support , Keyword: "Labeleditor"	
Enclosures	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 2/43, → Page 2/35	
Telescopic clip	7
For mounting depth compensation when rear mounting devices in CI enclosures, CI-K enclosures and cabinets	
→ Page 2/37	

Centring adapter	8
For centring of actuator and indicator elements when using telescopic clip	
→ Page 2/37	
IVS top-hat rail adapter	9
For direct mounting on top-hat rail according to IEC/EN 60175	
→ Page 2/38	
Label mounts	10
For insert plates	
Colour: black	
Insert plates, aluminium-coloured, with and without inscription, can be engraved	
→ Page 2/25	
Acoustic indicator	11
Degree of protection IP40 Without buzzer	
→ Page 2/19	
Buzzer	12
Continuous tone, pulsed tone	
18 – 30 V AC/DC	
→ Page 2/19	
Potentiometer	13
Resistance ratings from 1 to 470 kΩ	
3 individual connections	
With screw terminals	
→ Page 2/19	
Front rings	14
– Titanium	
– black	
– 24 carat gold can only be ordered via M22-Combination	
→ Page 2/37	
Indicator light	15
Flush and conical versions	
Colours: white, green, red, yellow, blue	
→ Page 2/18	
Key-operated actuators	16
2 and 3 positions	
Programmable stay-put/spring-return function and key withdrawability	
Suitable for master key systems	
→ Page 2/14	

Selector switch actuators	17
2 and 3 positions	
With rotary head, thumb-grip	
Programmable stay-put/spring-return function	
Illuminated selector switch actuators with transparent thumb-grip	
Colours: white, green, red, yellow, blue	
→ Page 2/13	
Button plates/Button lenses	18
Laser inscription for pushbutton actuators and mushroom actuators	
Button lenses for illuminated pushbuttons and indicator lights, flat	
With standard texts and symbols or - customised inscription	
→ Page 2/26	
Pushbutton actuators	19
Spring-return and stay-put	
Flush and extended	
With and without guard ring	
Mushroom Actuators	
Double actuators	
Colours: white, green, red, yellow, blue, black	
Illuminated pushbuttons	
Colours: white, green, red, yellow, blue	
→ Page 2/10	
Emergency-Stop actuators	20
Tamper-proof according to ISO 13850/EN 418	
Can be secured by sealable shroud	
Legend plates with and without inscription	
 	
	
→ Page 2/7	
Joystick	21
4 positions	
→ Page 2/17	
4-way pushbutton	22
4 positions	
Pushbutton actuators, spring-return	
→ Page 2/17	

Product features

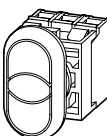
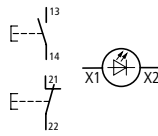
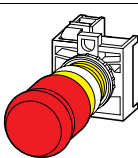
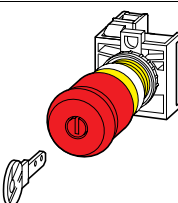
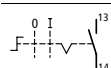
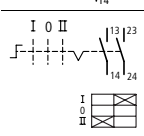
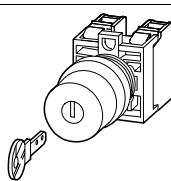
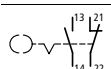
- Order with the designation M22-COMBINATION → 228298 and the suffix M22-ATEX or FAK-COMBINATION → 229758 with the suffix FAK-ATEX → 104370
- Snap-fitting modular system
- Front ring titanium, black or gold

- Mounting diameter: 22.3 mm
- Minimum grid dimension: 30 × 40 mm
- Degree of protection: minimum IP66

- Up to 6 contacts per mounting location
- For switching differing potentials
- Approved throughout the world





	Button plate	Auxiliary contacts: ☹ = safety function, by positive opening to IEC/EN 60947-5-1		Contact sequence	Part no. Article no. Front ring: titanium	Price see price list	Std. pack
N/O = Normally open N/C = Normally closed							
Pushbuttons, IP67, IP69K							
Actuator flush							
		1 N/O			M22-D-G-X1/K10 216512		5 off
			1 N/C ☹		M22-D-R-X0/K01 216510		5 off
Double actuator with white LED element lens, IP66							
85 – 264 V AC							
	  	1 N/O	1 N/C ☹		M22-DDL-GR-X1/ X0/K11/230-W 216509		5 off
	Emergency-Stop pushbutton, IP66, IP69K⁽¹⁾ Tamper-proof according to ISO 13850/EN 418 Pull to release Max. contacts to be fitted together: 4 × M22-(C)K... Red mushroom head (RAL 3000), yellow base						
			1 N/C ☹		M22-PV/K01 ⁽¹⁾ 216515		5 off
		1 N/O	1 N/C ☹		M22-PV/K11 ⁽¹⁾ 216516		5 off
Emergency-Stop key-release mushroom-headed pushbutton, IP66, 69K⁽²⁾ Tamper-proof according to ISO 13850/EN 418 With 1 key, MS1 individual lock mechanisms, not suitable for master key systems Release by using the key Red mushroom head (RAL 3000), yellow base							
			1 N/C ☹		M22-PVS/K01 216514		5 off
Selector switch actuators, IP66							
Thumb-grip, black Stay-put/spring return function convertible using M22-XC-Y coding adapters, → Engineering Switch positions 0, I and II correspond with the position of the actuator as viewed from the front. Front ring gold-plated, → page 2/37							
	2 positions, stay-put	1 N/O			M22-WRK/K10 216518		5 off
	3 positions, stay-put	2 N/O			M22-WRK3/K20 216520		5 off
IP66, key-operated buttons							
Stay-put/spring return function and key withdrawability convertible using M22-XC-... coding adapters, → Engineering 2 positions, stay-put MS1 lock mechanism, with 1 key							
		1 N/O	1 N/C ☹		M22-WRS/K11 216517		5 off

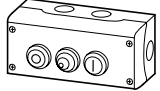
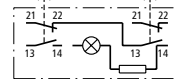
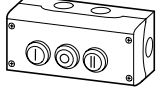
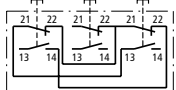
Notes

1)



2)



	Locations	Contacts M = make, B = break ⊕ = Safety function by positive opening of con- tacts to IEC/EN 60947-5- 1	Contact sequence	Colour of enco- sure top	Front ring: titanium Part no. Article no.	Price see price list	Std. pack
Pushbuttons, IP67, IP69K							
Actuator flush 	1	1 N/O	1 N/C ⊕	 	RAL 7035	M22-D-G-X1/KC11/I 216522	1 off
	1	1 N/O	1 N/C ⊕	 	RAL 7035	M22-D-R-X0/KC11/I 216521	1 off
Emergency-Stop button, IP66, IP69K							
Tamperproof according to ISO 13850/EN 418 Pull to release 	—	2 N/C ⊕		 RAL 1004	M22-PV/KC02/IY 216524		1 off
	—	1 N/O	1 N/C ⊕	 RAL 1004	M22-PV/KC11/IY 216525		1 off
Emergency-Stop key-release mushroom button, IP67, 69K							
With 1 key MS1 lock mechanism 	1	1 M	1 N/C ⊕	 	 RAL 1004	M22-PVS/KC11/IY 216523	1 off
IP66, key-operated buttons							
Stay-put/spring return function and key withdrawability convertible using M22-XC-... coding adapters, → Engineering With 1 key 2 positions, stay-put MS1 lock mechanism 	1	1 N/O	1 N/C ⊕		 RAL 7035	M22-WRS/KC11/I 216526	1 off
Two-way pushbutton stations, IP67, 69K							
Without indicator light 	2	2 N/O	2 N/C ⊕	 	 RAL 7035	M22-I2-M1 216529	1 off
With indicator light, white LED element 85 – 264 V AC 	2	2 N/O	2 N/C ⊕	 	 RAL 7035	M22-I3-M2 216533	1 off
3-way push-button station, IP67, IP69K							
	3	3 N/O	3 N/C ⊕	 	 RAL 7035	M22-I3-M1 216532	1 off
Customized complete units							
To order use form F0315 → Electronic Catalogue: RMQ-Titan → Product profile → Product information (*) = freely selectable customer identification or stock no.; max. 10 characters						M22-COMBINATION-* 228298	1 off



Ordering

Foot and palm switches

xCommand FAK-...

Moeller HPL0211-2006/2007

http://catalog.moeller.net

Auxiliary contacts: ⊕ = safety function, by positive opening to IEC/EN 60947-5-1

Contact sequence

Colour of mushroom head, indicator light

Protection type

Part no.
Article no.Price
see
price listStd.
pack

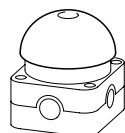
Approval

N/O =
Nor-
mally
open

N/C =
Nor-
mally
closed

FAK foot and palm switches

Spring-return

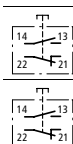


Enclosure base:
black (RAL 9005)
Enclosure top: light
grey (RAL 7035)

1 N/O

1 N/C

⊕



Black

IP67,
IP69KFAK-S/KC11/I
229749

1 off

1 N/O

1 N/C

⊕

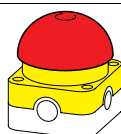


Red

IP67,
IP69KFAK-R/KC11/I
229746

1 off

Stay-put



Pull to release
Emergency-stop
actuator tamper-
proof to ISO
13850/EN 418
Enclosure base:
black (RAL 9005)
Enclosure top: yel-
low (RAL 1004)

1 N/O

1 N/C

⊕



Red

IP67,
IP69KFAK-R/V/KC01/IY
229747

1 off

1 N/O

1 N/C

⊕



Red

IP67,
IP69KFAK-R/V/KC11/IY
229748

2 N/C

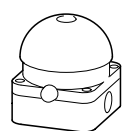
⊕

—

Red

IP67,
IP69KFAK-R/V/KC02/IY
256790

1 off



Enclosure base
grey
Enclosure top yel-
low
Mushroom head
red
Release by button
on the side
For Emergency-
Stop applications
according to ISO
13850

1 N/O

1 N/C

⊕



Red



IP65

FAK-R/V/KC11A/I
001475

1 off



BAUART
GEPRÜFT
TYPE
APPROVED

totally insulated

ATEX Ex

→ Engineering

Customized complete units

(*) = freely selectable customer identification or stock no.; max. 10 characters

An order consists of: enclosure base, enclosure top, contact elements for base fixing (→ page 2/22)

ATEX Ex → Engineering

—

IP67,
IP69KFAK-
COMBINATION-
229758

1 off

—

Enclosure base

For up to 3 contact elements



—

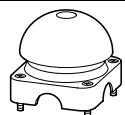
black

IP67,
IP69KFAK-IU
229753

1 off

—

Enclosure top



—

grey, mush-
room head
blackIP67,
IP69KFAK-S
095540

1 off

—

—

grey, mush-
room head redIP67,
IP69KFAK-R
071810

1 off

—

—

grey, mush-
room head yel-
lowIP67,
IP69KFAK-Y
229754

1 off

—

—

Yellow, mush-
room head redIP67,
IP69KFAK-R/V/Y
229755

1 off

—

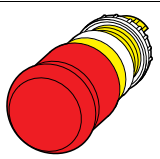
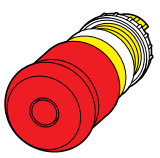
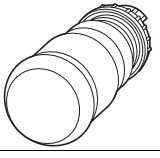
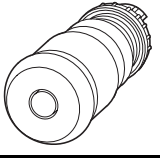
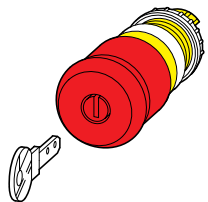
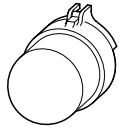
ATEX

- ATEX Ex → 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,
IP69KFAK-ATEX
104381

1 off

—

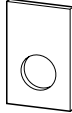
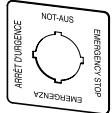
		Colour of mushroom head (yellow base)		Part no. Article no.	Price see price list	Std. pack
Emergency-Stop actuators, IP66, 69K¹⁾						
ATEX  → Engineering						
	Non-illuminated Pull to release		RAL 3000	M22-PV 216876		5 off
			RAL 3000	M22-PV-GVP 216877		50 off
	Non-illuminated Turn to release		RAL 3000	M22-PVT 263467		5 off
	Illuminated Pull to release		RAL 3000	M22-PVL 216878		5 off
	Illuminated Turn to release		RAL 3000	M22-PVLT 263469		5 off
Stop/halt pushbutton, IP67, IP69K						
ATEX  → Engineering						
	Non-illuminated, pull to release		RAL 9005	M22S-PV 225528		5 off
	Non-illuminated, turn to release		RAL 9005	M22S-PVT 271499		5 off
	Illuminated, pull to release		RAL 9005	M22S-PVL 230962		5 off
	Illuminated, turn to release		RAL 9005	M22S-PVLT 271540		5 off
Emergency-Stop key-release mushroom buttons, IP67, 69K²⁾						
ATEX  → Engineering With 1 key Release by using the key						
	Individual lock mechanisms MS1 Not suitable for master key systems		RAL 3000	M22-PVS 216879		5 off
	Individual lock mechanisms MS2 ... MS20 Not suitable for master key systems		RAL 3000	M22-PVS-MS* 216880		1 off
	Suitable for master key systems Pedido con formulario FO276 → Electronic Catalogue: RMQ16 → Product profile → Product information		RAL 3000	M22-PVS-SA(*)-* 104826		1 off
Guard ring for Emergency-Stop button, IP65						
ATEX  → Engineering						
			RAL 1004	M22-XGPV 231273		1 off
			RAL 7035	M22G-XGPV 271610		1 off
Sealing plate, IP65						
Degree of protection IP65 Transparent with separating point, can be refitted after Emergency-Stop operation. For use with M22-(S)-PV, M22(S)-PVL and M22-PVS In a 30 × 50 mm grid, cover adjacent openings with M22(S)-B blanking plugs.						
		—		M22-PL-PV 216397		2 off

Notes

¹⁾

²⁾ Order with form FO276 → Electronic Catalogue: RMQ16 → Product profile
→ Product information
Delivery period approx. 4 ... 6 weeks




	Text	Language	Colour	Part no. Article no.	Price see price list	Std. pack
Emergency-Stop labels, IP66						
	ATEX  → Engineering Lettering black					
	Not-Aus	de		RAL 1004	M22-XZK-D99 216471	10 off
	Emergency Stop	en			M22-XZK-GB99 216472	
	Arrêt d'urgence	fr			M22-XZK-F99 216473	
	EMERGENZA	it			M22-XZK-I99 216474	
	NOODSTOP	nl			M22-XZK-NL99 216475	
	NÖDSTOPP	sv			M22-XZK-S99 216476	
	HÄTÄ-SEIS	fi			M22-XZK-SF99 216477	
	NØDSTOP	da			M22-XZK-DK99 216478	
	With inscription to order via Labeleditor, → Engineering				M22-XZK-* 216479	
	Blank				M22-XZK 216470	25 off
	Four languages	de, en, fr, it			M22-XYK1 216484	10 off
	With inscription to order via Labeleditor, → Engineering				M22-XYK-* 231181	
	Four languages	de, en, fr, it			M22-XAK1 216465	
	Four languages	de, en, es, pt			M22-XAK2 216466	
	Four languages	de, en, nl, fr			M22-XAK3 216467	
	Four languages	en, sv, fi, da			M22-XAK4 216468	Height of letters: 7 (5) mm Number of lines: 1 Characters per line: up to 59 (86)
	With inscription to order via Labeleditor, → Engineering				M22-XAK-* 216469	
	Blank				M22-XAK 216464	
	Four languages	de, en, fr, it			M22-XBK1 216483	
	With inscription to order via Labeleditor, → Engineering				M22-XBK-* 231762	
	Blank				M22-XBK 269580	Height of letters: 5 mm Number of lines: 1 Characters per line: up to 48

Design	Button plate	Front ring: titanium Part no. Article no.	Price see price list	Std. pack	Front ring: black Part no. Article no.	Price see price list	Std. pack
Double actuators with indicator light, IP66 ATEX  → Engineering White lens Spring-return Front ring gold-plated, → page 2/37 							
Actuators and indicator lights non-flush		M22-DDL-GR 216698		5 off	M22S-DDL-GR 216699		5 off
		M22-DDL-GR-X1/X0 216700			M22S-DDL-GR-X1/X0 216701		
		M22-DDL-GR-GB1/GB0 216702			M22S-DDL-GR-GB1/GB0 216703		
		M22-DDL-WS 216704			M22S-DDL-WS 216705		
		M22-DDL-WS-X1/X0 216706			M22S-DDL-WS-X1/X0 216707		
		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 inscription to order via Labeleditor, → Note	M22-DDL-*** 226770			M22S-DDL-*** 230350		
Actuators and indicator lights flush		M22-DDLF-GR-X1/X0 284814		5 off	M22S-DDLF-GR-X1/X0 284815		5 off
		M22-DDLF-WS-X1/X0 284816			M22S-DDLF-WS-X1/X0 284817		
	With inscription to order via Labeleditor, → Note	M22-DDLF-*** 284818			M22S-DDLF-*** 284819		
Pushbutton actuator I and indicator light flush, pushbutton actuator O non-flush.		M22-DDLM-GR-X1/X0 284830		5 off	M22S-DDLM-GR-X1/X0 284831		5 off
		M22-DDLM-WS-X1/X0 284832			M22S-DDLM-WS-X1/X0 284833		

Notes

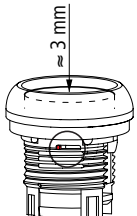
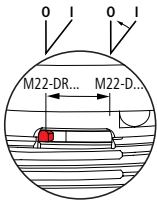
Example: M22(S)-DDL(F)-***

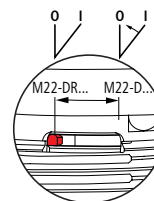
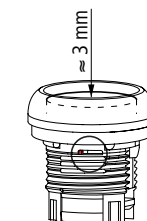
***: = Colour of button plate: B = blue, G = green, R = red, S = black
 B/S = top blue/bottom black, G/R = top green/bottom red, G/S = top green/bottom black, W/S = top white/bottom black

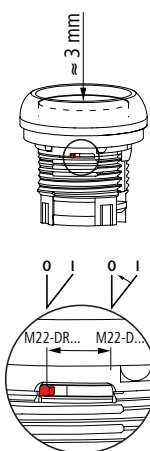
***: = File name assigned by Labeleditor (2 × enter), → Engineering





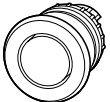
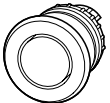
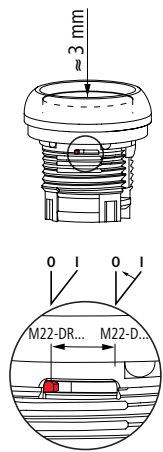
Button plate		Front ring: titanium		Std. pack	Front ring: black		Std. pack	Notes
		Part no. Article no.	Price see price list		Part no. Article no.	Price see price list		
Pushbutton actuators IP67, IP69K								
ATEX  → Engineering Front ring gold-plated, → page 2/37								
Flush actuator Spring-return 		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-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	
		M22-D-G-X1 216607			M22S-D-G-X1 216608			
	M22-D-S-X0 216609		M22S-D-S-X0 216610					
	M22-D-W-X1 216611		M22S-D-W-X1 216612					
Flush actuator Stay-put 		M22-DR-S 216613		5 off	M22S-DR-S 216614		5 off	Programmable stay-put/spring-return 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	
		M22-DR-G-X1 216630			M22S-DR-G-X1 216631			
		M22-DR-S-X0 216632			M22S-DR-S-X0 216633			
		M22-DR-W-X1 216634			M22S-DR-W-X1 216635			



Button plate		Front ring: titanium		Std. pack	Front ring: black		Std. pack	Notes
		Part no. Article no.	Price see price list		Part no. Article no.	Price see price list		
Pushbutton actuators IP67, IP69K								
ATEX  → Engineering Front ring gold-plated, → page 2/37				5 off			5 off	
Actuator extended, Spring-return 		M22-DH-S 216636			M22S-DH-S 216637			
		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			
		M22-DH-G-X1 216657			M22S-DH-G-X1 216658			
		M22-DH-S-X0 216659			M22S-DH-S-X0 216660			
		M22-DH-W-X1 216661		M22S-DH-W-X1 216662				
Actuator extended, Stay-put 		M22-DRH-S 216663		5 off	M22S-DRH-S 216664		5 off	Programmable stay- put/spring-return 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			
		M22-DRH-G-X1 216677			M22S-DRH-G-X1 216678			
		M22-DRH-S-X0 216679			M22S-DRH-S-X0 216680			
		M22-DRH-W-X1 216681			M22S-DRH-W-X1 216682			
with guard ring, spring-return, IP66, IP69K								
ATEX  → Engineering Front ring gold-plated, → page 2/37				5 off				
	—	M22-DG-X 220921						





			Front ring: titanium			Front ring: black				
	Button plate	Mushroom colour	Part no. Article no.	Price see price list	Std. pack	Part no. Article no.	Price see price list	Std. pack	Notes	
Mushroom actuators, IP67, IP69K										
ATEX  → Engineering Front ring gold-plated, → page 2/37										
Spring-return 			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				
			M22-DP-G-X1 216722			M22S-DP-G-X1 216723				
			M22-DP-S-X0 216724			M22S-DP-S-X0 216725				
			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				
Stay-put 			M22-DRP-S 216743		5 off	M22S-DRP-S 216744		5 off	Programmable stay-put/spring-return 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				
			M22-DRP-G-X1 216753			M22S-DRP-G-X1 216754				
			M22-DRP-S-X0 216755			M22S-DRP-S-X0 216756				
			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				

Function:			Button plate	Explanation	Front ring: titanium Part no. Article no.	Std. pack	Front ring: black Part no. Article no.	Std. pack
Selector switch actuators, IP66								
ATEX  → Engineering								
Front ring gold-plated, → page 2/37								
2 positions								
With rotary head								
	40°			M22-W 216853	5 off	M22S-W 216854	5 off	
	60°			M22-WR 216855		M22S-WR 216856		
	60°			M22-WR-X92 216857		M22S-WR-X92 216858		
	60°		AUTO HAND	M22-WR-X91 216859		M22S-WR-X91 216860		
	60°	—	With inscription to order via Labeleditor, → Engineering	M22-WR-* 226836		M22S-WR-* 226837		
With thumb-grip								
	40°	—		M22-WK 216865	5 off	M22S-WK 216866	5 off	
	60°	—		M22-WRK 216867	10 off	M22S-WRK 216869	10 off	
	60°	—		M22-WRK-GVP 216868	50 off		off	
With thumb-grip, V position								
	60°	—		M22-WKV 216874	5 off	M22S-WKV 216875	5 off	
3 positions								
With rotary head								
	40°↕40°			M22-W3 216861	5 off	M22S-W3 216862	5 off	
	60°↕60°			M22-WR3 216863		M22S-WR3 216864		
	60°↕60°		AUTO 0 HAND	M22-WR3-X94 226838		M22S-WR3-X94 226839		
	60°↕60°	—	With inscription to order via Labeleditor, → Engineering	M22-WR3-* 226840		M22S-WR3-* 226841		
With thumb-grip								
	40°↕40°	—		M22-WK3 216870	5 off	M22S-WK3 216871	5 off	
	60°↕60°	—		M22-WRK3 216872		M22S-WRK3 216873		
		—		M22-WRK3-* ¹⁾ 217436		M22S-WRK3-* ¹⁾ 217437		
4 positions								
Not suitable for coding adapters. Use M22-A4 fixing adapter, → page 2/22 Labels → page 2/17								
With rotary head								
	45°			M22-WR4 279419	5 off	M22S-WR4 279430	5 off	
With thumb-grip								
	45°			M22-WRK4 279431	5 off	M22S-WRK4 279432	5 off	

Notes

¹⁾ Example: M22-WRK3-*

* = 1: 60°↕40°

* = 2: 40°↕60°



Function: Key withdrawable in position

 = spring-return
 = stay-put

Front ring: titanium
Part no.
Article no.

Std.
pack

Front ring: black
Part no.
Article no.

Std.
pack

Key-operated actuator for individual lock mechanisms, IP66.

- ATEX  → Engineering
- Front ring gold-plated, → page 2/37
- Not suitable for master key systems
- With 1 key
- Convertible stay-put/spring-return function and key withdrawability, → page 2/15



2 positions

Lock mechanism MS1		40°	0	M22-WS 216881	1 off	M22S-WS 216882	1 off
		60°	0 I	M22-WRS 216887	5 off	M22S-WRS 216889	5 off
		60°	0 I	M22-WRS-GVP 216888	25 off		
		60°	0	M22-WRS-A1 229092	5 off	M22S-WRS-A1 229093	5 off
Lock mechanism MS2 ... MS20 (Insert lock mechanism number in the type designation) ¹⁾		40°	0	M22-WS-MS* 216883	1 off	M22S-WS-MS* 216884	1 off
		60°	0 I	M22-WRS-MS* 216890	1 off	M22S-WRS-MS* 216891	1 off
		60°	0	M22-WRS-MS*-A1 217440	5 off	M22S-WRS-MS*-A1 217441	5 off

3 positions (with plunger bridge) → Engineering

Lock mechanism MS1		40°	0	M22-WS3 216894	1 off	M22S-WS3 216895	1 off
		60°	0 II	M22-WRS3 216900	5 off	M22S-WRS3 216901	5 off
		60°	0 II	M22-WRS3-GVP 216902	25 off		
		Selectable ²⁾	—	M22-WRS3-A* 229094	5 off	M22S-WRS3-A* 229095	5 off
Lock mechanism MS2 ... MS20 (Insert lock mechanism number in the type designation) ¹⁾	Selectable ²⁾	Selectable ²⁾	—	M22-WRS3-MS*-A* 217442	5 off	M22S-WRS3-MS*-A* 217443	5 off
		40°	0	M22-WS3-MS* 216896	1 off	M22S-WS3-MS* 216897	1 off
		60°	0 II	M22-WRS3-MS* 216903	1 off	M22S-WRS3-MS* 216904	1 off

2 or 3 positions

Lock mechanism MS2 ... MS20 (Insert lock mechanism number in the type designation)	Selectable ³⁾	Selectable ³⁾	—	M22-WRS*-MS*-* 262521	1 off		
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Individual key

Spare key for AUTO-OFF/RESET-HAND switch



For MS1 lock mechanism				M22-ES-MS1 216416	5 off		
For lock mechanism MS2 – MS20				M22-ES-MS* 216417	1 off		

Notes

¹⁾For delivery please enquire

²⁾Example: M22(S)-WRS3-MS*-A*

MS*: * = MS1 ... MS20 (number of individual lock mechanism)

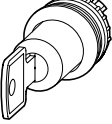
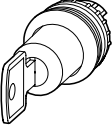
A*: * = 1, function , withdrawable in switch position 0
 * = 2, function , withdrawable in switch position I, 0
 * = 3, function , withdrawable in switch position 0, II
 * = 4, function , withdrawable in switch position I, 0
 * = 5, function , withdrawable in switch position 0
 * = 6, function , withdrawable 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)

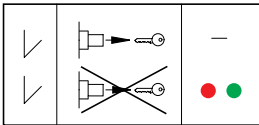
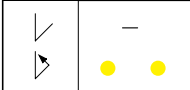
MS*: * = * = MS1 ... MS20 (number of individual lock mechanism)

-*: * = Customised inscription using Labeleditor; For * enter the automatically generated file name (→ Engineering) or "blank" if no inscription required

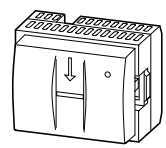
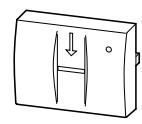
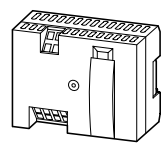
Function:			Key withdrawable in position	Front ring: titanium	Price	Std. pack	Front ring: black	Price	Std. pack
				Part no. Article no.	see price list		Part no. Article no.	see price list	
> = spring-return > = stay-put									
Key-operated actuator for master key systems, IP66 ATEX  → Engineering Front ring gold-plated, → page 2/37 With two keys									
2 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 I		M22-WRS-SA(*)-*A8 285537			M22S-WRS-SA(*)-*A8 285538		
	60° > 60°	I 0 II		M22-WRS3-SA(*)-*A9 285539			M22S-WRS3-SA(*)-*A9 285581		
3 positions 	40° > 40°	0		M22-WS3-SA(*)-* 216898			M22S-WS3-SA(*)-* 216899		
	60° > 60°	0		M22-WRS3-SA(*)-* 216905			M22S-WRS3-SA(*)-* 216906		
Individual key for master key systems, stainless ATEX  → Engineering Front ring gold-plated, → page 2/37 With two keys									
			0	M22-ES-SA(*)-* 217444		10 off			

Notes

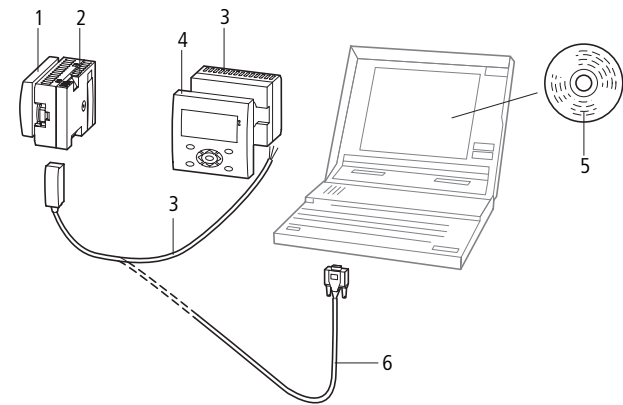
Master key systems: Delivery time 4 to 6 weeks after receipt of order
 Ordering form and example, → F0276 (PDF version in the electronic catalogue)

Function			Part no. Article no.	Price see price list	Std. pack
Set of coding adapters Not for key-operated pushbuttons for master key systems					
For converting between stay-put and spring-return function → Engineering 			M22-XC-R 216406		10 off
For converting between stay-put and spring-return function → Engineering 			M22-XC-Y 216407		10 off



Description	Part no. Article no.	Std. pack
Finger print recognition system for electronic locks, IP 65 Thermal line sensor for fingerprint recognition Up to 100 storeable fingerprints Max. 3 authorisation levels can be set via pulse inputs Contact output 1 changeover contact, when recognition is positive, the changeover contact switches as a pulse contact between 1 ... 10 s depending on setting Commissioning with MFD-80-B (→ page 4/38) and MFD(-AC)-CP4-800 (→ page 4/35) or emulation software for PC {3} Rapid wiring with spring-loaded terminals		
Sensor complete Including CPU/PS Rated operational voltage 24 V DC Rated operational current 200 mA		
 Frame: titanium	M22-ESA 290229	1 off
Frame: black	M22S-ESA 292274	1 off
Individual sensor In connection with CPU/PS Rated operational voltage 24 V DC Rated operational current 200 mA		
 Frame: titanium	M22-ESA-1 290240	1 off
Frame: black	M22S-ESA-1 292275	1 off
CPU/PS In connection with sensor M22(S)-ESA1 Rated operational voltage 24 V DC Rated operational current 200 mA		
 Rated operational voltage 24 V DC Rated operational current 200 mA Thermal line sensor for fingerprint recognition Max. 100 memory locations Contact output 1 changeover contact When recognition is positive, the changeover contact switches as a pulse contact between 1 – 10 s depending on setting Max. 3 authorisation levels can be set via pulse inputs Commissioning with MFD-80-B and MFD-CP4-800	M22-ESA-R 290241	1 off

Notes



- ① Sensor

② CPU

③ Power supply unit/communication module MFD-CP4-800

④ MFD80-B display

⑤ Emulation software

⑥ Programming cable
- page 4/35

→ page 4/38

→ page 4/105

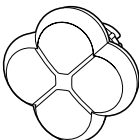
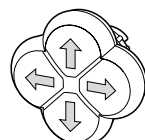
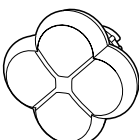
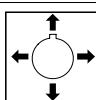
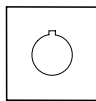
Four-way operators, 4 positions

http://catalog.moeller.net

Moeller HPL0211-2007/2008

M22(S)-W..., M22(S)-D..., M22-XCK...

xCommand

Text	Function: └ = stay-put └> = spring-return	For use with	Part no. Article no. Front ring: tita- nium	Price see price list	Std. pack	Part no. Article no. Front ring: black	Price see price list	Std. pack
Joystick, IP66								
ATEX  → Engineering Front ring gold-plated, → page 2/37 Use adapter M22-A4 → page 2/22								
	2 Positions	↔	M22-WJ2H 289195		1 off	M22S-WJ2H 289197		1 off
		—	M22-WRJ2H 289199			M22S-WRJ2H 289241		
		↙	M22-WJ2V 289196			M22S-WJ2V 289198		
		└	M22-WRJ2V 289240			M22S-WRJ2V 289242		
	4 positions	+	M22-WRJ4 279415		5 off	M22S-WRJ4 279416		5 off
		↕	M22-WJ4 279417		5 off	M22S-WJ4 279418		5 off
Position switches, IP66, 4-fold								
	No inscription, actuator colour black	↕	M22-D4-S 279411		5 off	M22S-D4-S 279412		5 off
	Inscription and actuator colour to order, → Note	↕	M22-D4-*. * 279413			M22S-D4-*. * 279414		
	Arrows, actuator colour black	↕	M22-D4-S-X7 286336			M22S-D4-S-X7 286337		
		—						
	No inscription, actuator colour black	↕	M22-D14-S-X7 286338		M22S-D14-S-X7 286339			
	Inscription and actuator colour to order, → Note	↕	M22-D14-*. * 286340		M22S-D14-*. * 286341			
Labels								
	No inscription	Joystick 4-way selector switch actuators	M22-XCK 279433		10 off			
	4 direction arrows	Joystick 4 positions	M22-XCK1 279434					
	2 direction arrows, can be turned through 90°	Joystick 2 positions	M22-XCK3 290260					
	0-1-0-2-0-3-0-4	4-way selector switch actuators	M22-XCK2 279435					
	With inscription to order via Labeleditor, → Engineering	Joystick 4-way selector switch actuators	M22-XCK- * 279436		10 off			

Example: M22(S)-D(I)4-*. *

-*. *. * = B = blue, G = green, R = red, S = black, W = white, Y = yellow

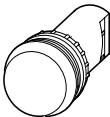
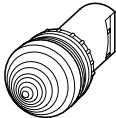
State colours clockwise, starting with 12:00 o'clock, example



-*. *. * = File name generated by LabelEditor, → Engineering





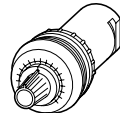
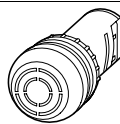
Colour		Design	Part no. Article no.	Price see price list	Std. pack
Indicator lights, IP67, 69K					
ATEX  → Engineering Front ring gold-plated, → page 2/37 LEDs for indicator lamps → page 2/23 ff.					
	White Red Green Yellow Blue – Without lens, → page 2/30 – Without lens, → page 2/30 <td>Flush</td> <td> M22-L-W 216771 M22-L-R 216772 M22-L-G 216773 M22-L-Y 216774 M22-L-B 216775 M22-L-X 216776 M22-L-X-GVP 216777 </td> <td></td> <td> 10 off 50 off </td>	Flush	M22-L-W 216771 M22-L-R 216772 M22-L-G 216773 M22-L-Y 216774 M22-L-B 216775 M22-L-X 216776 M22-L-X-GVP 216777		10 off 50 off
	White Red Green Yellow Blue <td>Extended, conical</td> <td> M22-LH-W 216778 M22-LH-R 216779 M22-LH-G 216780 M22-LH-Y 216781 M22-LH-B 216782 </td> <td></td> <td>10 off</td>	Extended, conical	M22-LH-W 216778 M22-LH-R 216779 M22-LH-G 216780 M22-LH-Y 216781 M22-LH-B 216782		10 off
Indicator lights, conical BA 9s, IP67, IP69K					
For fitting into M20/M25 pre-moulding in the enclosure base For filament bulbs and neon bulbs up to 2.4 W					
	Colour: red Colour: green Colour: yellow Colour: white <td></td> <td> L-R 208689 L-G 208690 L-Y 208691 L-W 208692 </td> <td></td> <td>1 off</td>		L-R 208689 L-G 208690 L-Y 208691 L-W 208692		1 off
Compact indicator light, IP67, IP69K					
Without light elements For filament and neon bulbs and LEDs up to 2.4 W Front ring gold-plated, → page 2/37 With lamp socket BA 9s					
	White Red Green Yellow Blue – Without lens Lenses for indicator lights → page 2/30 <td>Flush</td> <td> M22-LC-W 216907 M22-LC-R 216908 M22-LC-G 216909 M22-LC-Y 216910 M22-LC-B 216911 M22-LC-X 216912 </td> <td></td> <td>10 off</td>	Flush	M22-LC-W 216907 M22-LC-R 216908 M22-LC-G 216909 M22-LC-Y 216910 M22-LC-B 216911 M22-LC-X 216912		10 off
	White Red Green Yellow Blue <td>Extended</td> <td> M22-LCH-W 216914 M22-LCH-R 216915 M22-LCH-G 216916 M22-LCH-Y 216917 M22-LCH-B 216918 </td> <td></td> <td></td>	Extended	M22-LCH-W 216914 M22-LCH-R 216915 M22-LCH-G 216916 M22-LCH-Y 216917 M22-LCH-B 216918		

potentiometers, acoustic indicators, illuminated push-buttons

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M22(S)-R..., M22(S)-DL... **xCommand**

	Contact sequence	Resistance <i>R</i> kΩ	Part no. Article no. Front ring: tita- nium	Price see price list	Std. pack	Part no. Article no. Front ring: black	Price see price list	Std. pack
IP66 potentiometer								
ATEX  → Engineering Front ring gold-plated, → page 2/37 3 individual screw terminals, $P_{\max} = 0.5\text{ W}$ Accuracy of resistance value: $\pm 10\%$ (linear) M22...RH with large operating head 		1	M22-R1K 229489		1 off	M22S-R1K 232231		1 off
		4.7	M22-R4K7 229490		1 off	M22S-R4K7 232232		1 off
		10	M22-R10K 229491		1 off	M22S-R10K 232233		1 off
		47	M22-R47K 229492		1 off	M22S-R47K 232234		1 off
		100	M22-R100K 229493		1 off	M22S-R100K 232235		1 off
		470	M22-R470K 229494		1 off	M22S-R470K 232236		1 off
		Selectable, → Note	M22-R*-* 263371		1 off	M22S-R*-* 263372		1 off
		Selectable, → Note	M22-R*-* -RH 288863		1 off			
Compact acoustic indicator, IP40								
	Selectable, → Note		M22-AMC 229015		1 off			
Buzzer for acoustic indicator								
83 dB/10 cm, 18 – 30 mA, positive pole con- nected to X1, $f = 2300\text{ Hz}$	Continuous tone		M22-XAM 229025		1 off			
	Pulsed tone, 24 V DC (+10 %/-15 %)		M22-XAMP 229028		1 off			
		Contact sequence						
Illuminated pushbutton actuators, IP67,								
ATEX  → Engineering Front ring gold-plated, → page 2/37 Flush, stay-put 		White	M22-DL-W 216922		10 off	M22S-DL-W 216924		10 off
		Red	M22-DL-R 216925		10 off	M22S-DL-R 216926		10 off
		Green	M22-DL-G 216927		10 off	M22S-DL-G 216928		10 off
		Yellow	M22-DL-Y 216929		10 off	M22S-DL-Y 216930		10 off
		Blue	M22-DL-B 216931		10 off	M22S-DL-B 216932		10 off
	–	Without	M22-DL-X 216933		10 off	M22S-DL-X 216935		10 off
	–	Without	M22-DL-X-GVP 216934		50 off			
		Red	M22-DL-R-X0 216936		10 off	M22S-DL-R-X0 216937		10 off
		Green	M22-DL-G-X1 216938		10 off	M22S-DL-G-X1 216939		10 off
		White	M22-DL-W-X0 216940		10 off	M22S-DL-W-X0 216941		10 off
		White	M22-DL-W-X1 216942		10 off	M22S-DL-W-X1 216943		10 off

Notes

* – *: * =

Existing resistance values:

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

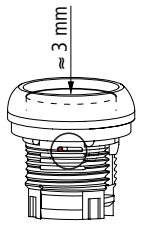
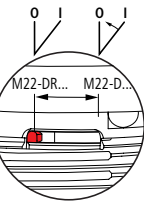
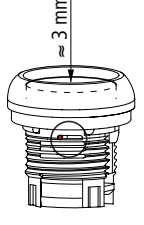
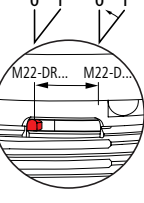
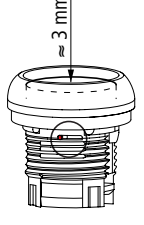
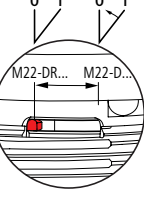
1M = 1 MΩ

* – *: * =

Standard scale/inscription: X1000

Without scale/inscription: "–"



Colour		Part no. Article no.	Price see price list	Std. pack	Part no. Article no.	Price see price list	Std. pack	Notes
		Front ring: titanium			Front ring: black			
Illuminated pushbutton actuators, IP67, IP69K								
ATEX  → Engineering Front ring gold-plated, → page 2/37 Flush, stay-put								
		White	M22-DRL-W 216944	5 off	M22S-DRL-W 216945		5 off	Programmable stay-put/spring-return pushbutton function  
		Red	M22-DRL-R 216946	5 off	M22S-DRL-R 216947		5 off	
		Green	M22-DRL-G 216948	5 off	M22S-DRL-G 216949		5 off	
		Yellow	M22-DRL-Y 216950	5 off	M22S-DRL-Y 216951		5 off	
		Blue	M22-DRL-B 216952	5 off	M22S-DRL-B 216953		5 off	
	—	Without	M22-DRL-X 216954	5 off	M22S-DRL-X 216956		5 off	
	—	Without	M22-DRL-X-GVP 216955	50 off				
		Red	M22-DRL-R-X0 216957	5 off	M22S-DRL-R-X0 216958		5 off	
		Green	M22-DRL-G-X1 216959	5 off	M22S-DRL-G-X1 216960		5 off	
		White	M22-DRL-W-X0 216961	5 off	M22S-DRL-W-X0 216962		5 off	
	White	M22-DRL-W-X1 216963	5 off	M22S-DRL-W-X1 216964		5 off		
		White	M22-DLH-W 216965	5 off	M22S-DLH-W 216966		5 off	Programmable stay-put/spring-return pushbutton function  
		Red	M22-DLH-R 216967	5 off	M22S-DLH-R 216968		5 off	
		Green	M22-DLH-G 216969	5 off	M22S-DLH-G 216970		5 off	
		Yellow	M22-DLH-Y 216971	5 off	M22S-DLH-Y 216972		5 off	
		Blue	M22-DLH-B 216973	5 off	M22S-DLH-B 216974		5 off	
		Red	M22-DLH-R-X0 216975	5 off	M22S-DLH-R-X0 216976		5 off	
		Green	M22-DLH-G-X1 216977	5 off	M22S-DLH-G-X1 216978		5 off	
		White	M22-DLH-W-X0 216979	5 off	M22S-DLH-W-X0 216980		5 off	
		White	M22-DLH-W-X1 216981	5 off	M22S-DLH-W-X1 216982		5 off	
		White	M22-DRLH-W 216788	5 off	M22S-DRLH-W 216791		5 off	Programmable stay-put/spring-return pushbutton function  
		Red	M22-DRLH-R 216789	5 off	M22S-DRLH-R 216792		5 off	
		Green	M22-DRLH-G 216796	5 off	M22S-DRLH-G 216798		5 off	
		Yellow	M22-DRLH-Y 216799	5 off	M22S-DRLH-Y 216801		5 off	
		Blue	M22-DRLH-B 216802	5 off	M22S-DRLH-B 216803		5 off	
		Red	M22-DRLH-R-X0 216804	5 off	M22S-DRLH-R-X0 216808		5 off	
		Green	M22-DRLH-G-X1 216805	5 off	M22S-DRLH-G-X1 216809		5 off	
		White	M22-DRLH-W-X0 216806	5 off	M22S-DRLH-W-X0 216810		5 off	
		White	M22-DRLH-W-X1 216807	5 off	M22S-DRLH-W-X1 216811		5 off	
With guard ring ATEX  → Engineering Front ring gold-plated, → page 2/37 Spring-return								
	—	Without	M22-DGL-X 230961	5 off				

Illuminated selector switch actuators

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M22-W(R)LK... **xCommand**

Function:		Colour of thumb-grip	Part no.	Std. pack	Part no.	Std. pack
			Article no.		Article no.	
 = spring-return			Front ring: titanium		Front ring: black	
 = stay-put						
Illuminated selector switch actuators, thumb-grip, IP66						
ATEX  → Engineering Front ring gold-plated, → page 2/37 Stay-put/spring return function, convertible using M22-XC-Y, → Engineering						
						
2 positions						
 = spring-return	 40°	 White	M22-WLK-W 216812	5 off	M22S-WLK-W 216813	5 off
	 40°	 Red	M22-WLK-R 216814	5 off	M22S-WLK-R 216815	5 off
	 40°	 Green	M22-WLK-G 216816	5 off	M22S-WLK-G 216817	5 off
	 40°	 Yellow	M22-WLK-Y 216818	5 off	M22S-WLK-Y 216819	5 off
	 40°	 Blue	M22-WLK-B 216820	5 off	M22S-WLK-B 216821	5 off
 = stay-put	 60°	 White	M22-WRLK-W 216823	5 off	M22S-WRLK-W 216824	5 off
	 60°	 Red	M22-WRLK-R 216825	5 off	M22S-WRLK-R 216826	5 off
	 60°	 Green	M22-WRLK-G 216827	5 off	M22S-WRLK-G 216828	5 off
	 60°	 Yellow	M22-WRLK-Y 216829	5 off	M22S-WRLK-Y 216830	5 off
	 60°	 Blue	M22-WRLK-B 216831	5 off	M22S-WRLK-B 216832	5 off
3 positions						
 = spring-return	40°  40°	 White	M22-WLK3-W 216833	5 off	M22S-WLK3-W 216834	5 off
	40°  40°	 Red	M22-WLK3-R 216835	5 off	M22S-WLK3-R 216836	5 off
	40°  40°	 Green	M22-WLK3-G 216837	5 off	M22S-WLK3-G 216838	5 off
	40°  40°	 Yellow	M22-WLK3-Y 216839	5 off	M22S-WLK3-Y 216840	5 off
	40°  40°	 Blue	M22-WLK3-B 216841	5 off	M22S-WLK3-B 216842	5 off
 = stay-put	60°  60°	 White	M22-WRLK3-W 216843	5 off	M22S-WRLK3-W 216844	5 off
	60°  60°	 Red	M22-WRLK3-R 216845	5 off	M22S-WRLK3-R 216846	5 off
	60°  60°	 Green	M22-WRLK3-G 216847	5 off	M22S-WRLK3-G 216848	5 off
	60°  60°	 Yellow	M22-WRLK3-Y 216849	5 off	M22S-WRLK3-Y 216850	5 off
	60°  60°	 Blue	M22-WRLK3-B 216851	5 off	M22S-WRLK3-B 216852	5 off
		Selectable, → Note	M22-WRLK3-*/ 217438	5 off	M22S-WRLK3-*/ 217439	5 off
V position						
	∨ 60°	 White	M22-WLKV-W 284393	5 off	M22S-WLKV-W 284398	5 off
	∨ 60°	 Red	M22-WLKV-R 284394	5 off	M22S-WLKV-R 284399	5 off
	∨ 60°	 Green	M22-WLKV-G 284395	5 off	M22S-WLKV-G 284540	5 off
	∨ 60°	 Yellow	M22-WLKV-Y 284396	5 off	M22S-WLKV-Y 284543	5 off
	∨ 60°	 Blue	M22-WLKV-B 284397	5 off	M22S-WLKV-B 284544	5 off

Notes

Example: M22-WRLK3-*/*

/: * = 1 for <||> or 2 for <||>

/: * = Colour



Ordering

Fixing adapter, contact elements

xCommand M22-A..., M22-K..., M22-CK..., M22-AK...

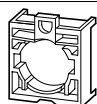
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Connection technique	Contacts N/O = normally open contact, N/C = normally closed contact ⊕ = positive opening safety function according to IEC/EN 60947-5-1	Contact sequence	Contact travel diagram, stroke in connection with front element	Configuration	Part no. Article no.	Price see price list	Std. pack
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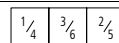
Fixing adapters

Fixing adapter (front fixing) for 3-contact/ LED elements
For M22-(C)K... contact elements and M22-(C)LED... LED elements
Sequence numbers on fixing adapter



—

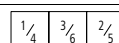
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M22-A
216374

50 off

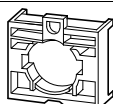
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—

M22-A-GVP
216375

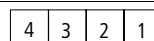
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Fixing adapter (front fixing) for 4 contact elements, can be used with M22-WR4, -WRJ4, -D4
For M22-(C)K contact elements



—

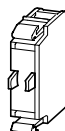
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M22-A4
279437

10 off

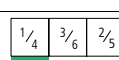
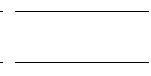
Contact elements

Front fixing



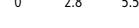
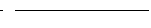
with bolt connection

1 N/O

M22-K10
216376

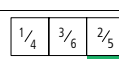
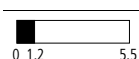
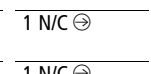
20 off

1 N/O

M22-K10-GVP
216377

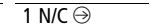
500 off

1 N/C ⊕

M22-K01
216378

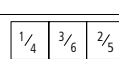
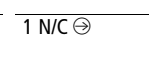
20 off

1 N/C ⊕

M22-K01-GVP
216379

500 off

1 N/C ⊕

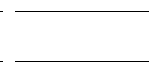
M22-K01D
262165

20 off

Base fixing



1 N/O

M22-KC10
216380

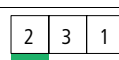
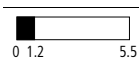
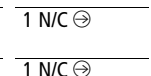
20 off

1 N/O

M22-KC10-GVP
216381

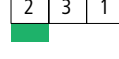
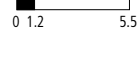
200 off

1 N/C ⊕

M22-KC01
216382

20 off

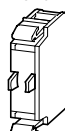
1 N/C ⊕

M22-KC01-GVP
216383

200 off

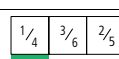
Contact elements

Front fixing



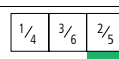
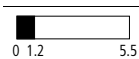
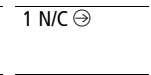
Cage Clamp

1 N/O

M22-CK10
216384

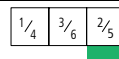
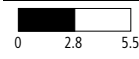
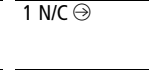
20 off

1 N/C ⊕

M22-CK01
216385

20 off

1 N/C ⊕

M22-CK01D
262510

20 off

Base fixing

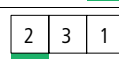
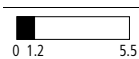
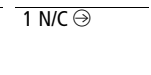


1 N/O

M22-CKC10
216386

20 off

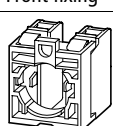
1 N/C ⊕

M22-CKC01
216387

20 off

Complete modules

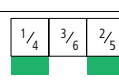
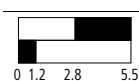
Combination of contact elements with screw terminals and fixing adapter
Front fixing



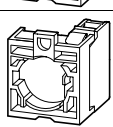
Screw terminals

1 N/O

1 N/C ⊕

M22-AK11
216505

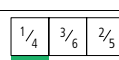
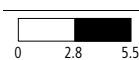
5 off



Screw terminals

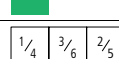
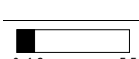
1 N/O

1 N/C ⊕

M22-AK10
216504

5 off

1 N/C ⊕

M22-AK01
216503

5 off

Notes

¹⁾ Assignment: Assignment of the fixing adapter with sequence numbers according to EN 50013

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

²⁾ Cage Clamp is a registered trademark of Wago Kontakttechnik GmbH



Rated operational voltage	Rated operational current	Power consumption	Lifespan to EN 60064 at $t_a = +25^\circ\text{C}$	Colour	Part no. Article no.	Price see price list	Std. pack
U_e	I_e	$P_{\max.}$	t_{mean} (AC)				
V	mA	W	h				

LED elements with screw terminals

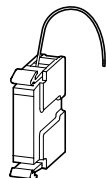
→Engineering



Front fixing 	12 ... 30 V AC/DC	8 – 15	0.26 W at 24 V	100000		M22-LED-W 216557		20 off
						M22-LED-R 216558		
						M22-LED-G 216559		
						M22-LED-B 218057		
	85 ... 264 V AC, 50/60 Hz	5 – 15	0.33			M22-LED230-W 216563		
						M22-LED230-R 216564		
						M22-LED230-G 216565		
						M22-LED230-B 218059		
	207 ... 264 V AC, 50/60 Hz	12 – 15			–	M22-LED230H-* 106521		
Base fixing 	12 ... 30 V AC/DC	8 – 15	0.26 W at 24 V	100000		M22-LEDC-W 216560		
						M22-LEDC-R 216561		
						M22-LEDC-G 216562		
						M22-LEDC-B 218058		
	85 ... 264 V AC, 50/60 Hz	5 – 15	0.33			M22-LEDC230-W 216566		
						M22-LEDC230-R 216567		
						M22-LEDC230-G 216568		
						M22-LEDC230-B 218060		
	207 ... 264 V AC, 50/60 Hz	12 – 15			–	M22-LEDC230H-* 106522		

LED series elements with screw terminals

Front and base fixing



LED resistor element For connecting 12 – 30 V LED elements to:	42 ... 60 V AC/DC	–	M22-XLED60 231078	10 off
	220 V AC/DC	–	M22-XLED220 271541	
LED test element For non-interacting function test (lamp test) For connection to:	12 ... 240 V AC/DC	–	M22-XLED-T 231079	
	85 – 264 V AC	–	M22-XLED230-T 231080	

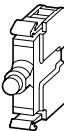
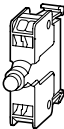
Notes

For pushbutton actuators, indicator lights, illuminated pushbuttons 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...-W
M22...-B in combination with M22-LED...-W or M22-LED...-B
Enter colour at *:
W = white, R = red, G = green, B = blue
Max. ambient temperature: -25 to +55 °C



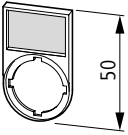


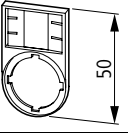
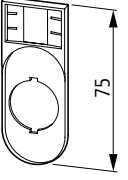
	Rated operational voltage	Rated operational current	Power consumption	Lifespan to EN 60064 at $t_a = +25\text{ °C}$	Colour	Part no. Article no.	Price see price list	Std. pack
	U_e	I_e	$P_{max.}$	t_{mean} (AC)				
	V	mA	W	h				
LED elements with Cage Clamp								
→Engineering Cage Clamp is a registered trademark of Wago Kontakttechnik GmbH/Minden, Germany								
								
Front fixing								
	12 ... 30 V AC/DC	8 – 15	0.26 W at 24 V	100000		M22-CLED-W 216569		20 off
						M22-CLED-R 216570		
						M22-CLED-G 216571		
						M22-CLED-B 218061		
	85 ... 264 V AC, 50/60 Hz	5 – 15	0.33			M22-CLED230-W 216575		
						M22-CLED230-R 216576		
						M22-CLED230-G 216577		
						M22-CLED230-B 218063		
Base fixing								
	12 ... 30 V AC/DC	8 – 15	0.26 W at 24 V	100000		M22-CLEDC-W 216572		20 off
						M22-CLEDC-R 216573		
						M22-CLEDC-G 216574		
						M22-CLEDC-B 218062		
	85 ... 264 V AC, 50/60 Hz	5 – 15	0.33			M22-CLEDC230-W 216578		20 off
						M22-CLEDC230-R 216579		
						M22-CLEDC230-G 216580		
						M22-CLEDC230-B 218064		

Notes

For pushbutton actuators, indicator lights, illuminated pushbuttons 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...-W
 M22...-B in combination with M22-LED...-W or M22-LED...-B

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

Explanation	Colour	Part no. Article no.	Price see price list	Std. pack	Notes
Insert plates for label mounts, 18 × 27 mm					
ATEX  → Engineering					
	Aluminium-coloured, no inscription	–	M22-XST 216480	100 off	
	Aluminium-coloured, no inscription	–	M22-XST-GVP 216481	500 off	
	With inscription to order via Labeleditor, → Engineering	–	M22-XST-* 216482	1 off	Letter height 3 mm: max. 3 lines of up to 12 characters per line Letter height 5 mm: max. 2 lines of up to 8 characters per line
IP66, legend plates, without label mount					
ATEX  → Engineering					
Round, black (RAL 9005), 30 mm wide					
		●	M22S-ST-X 216392	100 off	Cannot be used for M22(S)-PV...
		●	M22S-ST-X-GVP 216393	500 off	Cannot be used for M22(S)-PV...
	For double actuators	●	M22S-STDD-X 216394	10 off	



Ordering

Button plates for pushbutton actuator

xCommand M22-XD(H)...

Moeller HPL0211-2007/2008

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Inscription	For use with	Colour, symbol	Style: flush Part no. Article no.	Price see price list	Style: extended Part no. Article no.	Price see price list	Std. pack
Button plates for pushbutton actuators							
≤ 5 characters: letter height 5 mm > 5 characters: letter height 3 mm							
	M22(S)-D-X M22(S)-DR-X M22-DG-X		M22-XD-S 216421		M22-XDH-S 216428		10 off
			M22-XD-W 216422		M22-XDH-W 216429		
			M22-XD-R 216423		M22-XDH-R 216430		
			M22-XD-G 216424		M22-XDH-G 216431		
			M22-XD-Y 216425		M22-XDH-Y 216432		
			M22-XD-B 216426		M22-XDH-B 216433		
With inscription to order via Label-editor → Note		—	M22-XD-*. * 216427		M22-XDH-*. * 216434		1 off
Zu			M22-XD-S-D2 218184		M22-XDH-S-D2 218229		10 off
Auf			M22-XD-S-D3 218185		M22-XDH-S-D3 218230		
Ab			M22-XD-S-D4 218186		M22-XDH-S-D4 218231		
Aus			M22-XD-R-D5 218187		M22-XDH-R-D5 218232		
Ein			M22-XD-S-D6 218188		M22-XDH-S-D6 218233		
Entsperren			M22-XD-B-D14 218189		M22-XDH-B-D14 218234		
Vorwärts			M22-XD-S-D15 218190		M22-XDH-S-D15 218235		
Rückwärts			M22-XD-S-D16 218191		M22-XDH-S-D16 218236		
Heben			M22-XD-S-D17 218192		M22-XDH-S-D17 218237		
Senken			M22-XD-S-D18 218193		M22-XDH-S-D18 218238		
STOP			M22-XD-R-GB0 218194		M22-XDH-R-GB0 218239		
STOP			M22-XD-S-GB0 218195		M22-XDH-S-GB0 218240		
START			M22-XD-G-GB1 218196		M22-XDH-G-GB1 218241		
START			M22-XD-W-GB1 218197		M22-XDH-W-GB1 218242		
CLOSE			M22-XD-S-GB2 218198		M22-XDH-S-GB2 218243		
UP			M22-XD-S-GB3 218199		M22-XDH-S-GB3 218244		
DOWN			M22-XD-S-GB4 218200		M22-XDH-S-GB4 218245		
TEST			M22-XD-S-GB9 218201		M22-XDH-S-GB9 218246		
OFF			M22-XD-R-GB5 218202		M22-XDH-R-GB5 218247		
ON			M22-XD-S-GB6 218203		M22-XDH-S-GB6 218248		

Notes

The part number M22-XD(H)-*. * must be supplemented when ordering:

1st wildcard △ colour: e.g. -R, -G, -B, -W, -Y, -S

2nd wildcard △ 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



Button plates for pushbutton actuator

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Moeller HPL0211-2007/2008

M22-XD(H)... **xCommand**

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





Inscription	For use with	Colour, symbol	Part no. Article no.	Price see price list	Std. pack
Button plates for mushroom actuators					
≤ 5 characters: letter height 5 mm >5 characters: letter height 3 mm					
	M22(S)-D(R)P-...		M22-XDP-S 216435		10 off
			M22-XDP-W 216436		
			M22-XDP-R 216437		
			M22-XDP-G 216438		
			M22-XDP-Y 216439		
		—	M22-XDP-*. * 216440		
With inscription to order via Labeleditor → Note					
Zu			M22-XDP-S-D2 218272		
Auf			M22-XDP-S-D3 218273		
Ab			M22-XDP-S-D4 218274		
Aus			M22-XDP-R-D5 218275		
Ein			M22-XDP-S-D6 218276		
Vorwärts			M22-XDP-S-D15 218277		
Rückwärts			M22-XDP-S-D16 218278		
Heben			M22-XDP-S-D17 218279		
Senken			M22-XDP-S-D18 218280		
STOP			M22-XDP-R-GB0 218281		
STOP			M22-XDP-S-GB0 218282		
START			M22-XDP-G-GB1 218283		
START			M22-XDP-W-GB1 218284		
CLOSE			M22-XDP-S-GB2 218285		
UP			M22-XDP-S-GB3 218286		
DOWN			M22-XDP-S-GB4 218287		
OFF			M22-XDP-R-GB5 218289		
ON			M22-XDP-S-GB6 218290		
TEST			M22-XDP-S-GB9 218288		
FORWARD			M22-XDP-S-GB15 218291		
REVERSE			M22-XDP-S-GB16 218292		

Notes

When ordering, the type reference must include the following details:
M22-X...-*. *

1st wildcard △ colour: e.g. -R, -G, -B, -W, -Y, -S

2nd wildcard △ 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 characteres per line



Button plates for mushroom actuators

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Moeller HPL0211-2007/2008

M22-XDP... **xCommand**

Inscription	For use with	Colour, symbol	Part no. Article no.	Price see price list	Std. pack
Button plates for mushroom actuators					
≤ 5 characters: letter height 5 mm >5 characters: letter height 3 mm					
RAISE	M22(S)-D(R)P-...		M22-XDP-S-GB17 218293		10 off
LOWER			M22-XDP-S-GB18 218294		
STOP			M22-XDP-R-X0 218157		
STOP			M22-XDP-S-X0 218158		
START			M22-XDP-G-X1 218254		
START			M22-XDP-S-X1 218255		
START			M22-XDP-W-X1 218256		
START			M22-XDP-G-X2 218257		
START			M22-XDP-S-X2 218258		
Increase			M22-XDP-S-X4 218259		
Decrease			M22-XDP-S-X5 218260		
Directions of movement			M22-XDP-S-X7 218261		
Directions of movement			M22-XDP-S-X8 218262		
Hand			M22-XDP-S-X9 218263		
Automatic			M22-XDP-S-X10 218264		
Inch			M22-XDP-S-X11 218265		
Unlock			M22-XDP-S-X12 218266		
Unclamp			M22-XDP-S-X13 218267		
Clamp			M22-XDP-S-X14 218268		
Release			M22-XDP-S-X15 218269		
Liquid			M22-XDP-S-X16 218270		
Klaxon			M22-XDP-S-X17 218271		





Inscription	For use with	Colour, symbol	Style: flush		Std. pack	Style: extended		Std. pack
			Part no. Article no.	Price see price list		Part no. Article no.	Price see price list	
Lenses for indicator lights								
≤ 5 characters: letter height 5 mm								
>5 characters: letter height 3 mm								
	M22-L-X M22-LC-X		M22-XL-W 216453		10 off	M22-XLH-W 216459		10 off
			M22-XL-R 216454			M22-XLH-R 216460		
			M22-XL-G 216455			M22-XLH-G 216461		
			M22-XL-Y 216456			M22-XLH-Y 216462		
			M22-XL-B 216457			M22-XLH-B 216463		
With inscription to order via Labeleditor → Note		—	M22-XL-*. * 216458					
Zu			M22-XL-W-D2 218403					
Auf			M22-XL-W-D3 218404					
Ab			M22-XL-W-D4 218405					
Aus			M22-XL-R-D5 218406					
Ein			M22-XL-W-D6 218407					
Vorwärts			M22-XL-W-D15 218408					
Rückwärts			M22-XL-W-D16 218409					
Heben			M22-XL-W-D17 218410					
Senken			M22-XL-W-D18 218411					
STOP			M22-XL-R-GB0 218412					
STOP			M22-XL-W-GB0 218413					
START			M22-XL-G-GB1 218414					
START			M22-XL-W-GB1 218415					
CLOSE			M22-XL-W-GB2 218416					
UP			M22-XL-W-GB3 218417					
DOWN			M22-XL-W-GB4 218418					
TEST			M22-XL-W-GB9 218419					
OFF			M22-XL-R-GB5 218420					
ON			M22-XL-W-GB6 218421					
FORWARD			M22-XL-W-GB15 218422					

Notes

When ordering, the type reference must include the following details:
M22-X...-*

1st wildcard △ colour: e.g. -R, -G, -B, -W, -Y, -S

2nd wildcard △ 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 characteres per line



Inscription	For use with	Colour, symbol	Part no. Article no.	Price see price list	Std. pack
Lenses for indicator lights					
≤ 5 characters: letter height 5 mm >5 characters: letter height 3 mm					
REVERSE	M22-L-X M22-LC-X		M22-XL-W-GB16 218423		10 off
RAISE			M22-XL-W-GB17 218424		
LOWER			M22-XL-W-GB18 218425		
STOP			M22-XL-R-X0 218163		
STOP			M22-XL-W-X0 218164		
START			M22-XL-G-X1 218384		
START			M22-XL-W-X1 218385		
START			M22-XL-G-X2 218386		
START			M22-XL-W-X2 218387		
Increase			M22-XL-W-X4 218388		
Decrease			M22-XL-W-X5 218389		
Directions of movement			M22-XL-W-X7 218390		
Directions of movement			M22-XL-W-X8 218391		
Hand			M22-XL-W-X9 218392		
Automatic			M22-XL-W-X10 218393		
Inch			M22-XL-W-X11 218394		
Unlock			M22-XL-W-X12 218395		
Unclamp			M22-XL-W-X13 218396		
Clamp			M22-XL-W-X14 218399		
Release			M22-XL-W-X15 218400		
Liquid			M22-XL-W-X16 218401		
Klaxon			M22-XL-W-X17 218402		





Inscription	For use with	Colour, symbol	Style: flush		Style: extended		Std. pack
			Part no. Article no.	Price see price list	Part no. Article no.	Price see price list	
Button lenses for illuminated pushbutton actuators							10 off
≤ 5 characters: letter height 5 mm >5 characters: letter height 3 mm							
	M22(S)-DL-X M22(S)-DRL-X M22S-DGL-X		M22-XDL-W 216441		M22-XDLH-W 216447		
			M22-XDL-R 216442		M22-XDLH-R 216448		
			M22-XDL-G 216443		M22-XDLH-G 216449		
			M22-XDL-Y 216444		M22-XDLH-Y 216450		
			M22-XDL-B 216445		M22-XDLH-B 216451		
With inscription to order via Labeleditor → Note		—	M22-XDL-*. * 216446		M22-XDLH-*. * 216452		
Zu			M22-XDL-W-D2 218316		M22-XDLH-W-D2 218359		
Auf			M22-XDL-W-D3 218317		M22-XDLH-W-D3 218360		
Ab			M22-XDL-W-D4 218318		M22-XDLH-W-D4 218361		
Aus			M22-XDL-R-D5 218319		M22-XDLH-R-D5 218362		
Ein			M22-XDL-W-D6 218320		M22-XDLH-W-D6 218363		
Entsperren			M22-XDL-B-D14 218321		M22-XDLH-B-D14 218364		
Vorwärts			M22-XDL-W-D15 218322		M22-XDLH-W-D15 218365		
Rückwärts			M22-XDL-W-D16 218323		M22-XDLH-W-D16 218366		
Heben			M22-XDL-W-D17 218324		M22-XDLH-W-D17 218367		
Senken			M22-XDL-W-D18 218325		M22-XDLH-W-D18 218368		
STOP			M22-XDL-R-GB0 218326		M22-XDLH-R-GB0 218369		
STOP			M22-XDL-W-GB0 218327		M22-XDLH-W-GB0 218370		
START			M22-XDL-G-GB1 218328		M22-XDLH-G-GB1 218371		
START			M22-XDL-W-GB1 218329		M22-XDLH-W-GB1 218372		
CLOSE			M22-XDL-W-GB2 218330		M22-XDLH-W-GB2 218373		
UP			M22-XDL-W-GB3 218331		M22-XDLH-W-GB3 218374		
DOWN			M22-XDL-W-GB4 218332		M22-XDLH-W-GB4 218375		
TEST			M22-XDL-W-GB9 218333		M22-XDLH-W-GB9 218376		
OFF			M22-XDL-R-GB5 218334		M22-XDLH-R-GB5 218377		
ON			M22-XDL-W-GB6 218335		M22-XDLH-W-GB6 218378		

Notes

When ordering, the type reference must include the following details:
M22-X...-*. *

1st wildcard △ colour: e.g. -R, -G, -B, -W, -Y, -S

2nd wildcard △ 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:

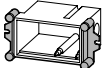
Max. 5 characteres per line

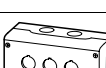
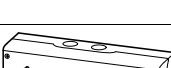
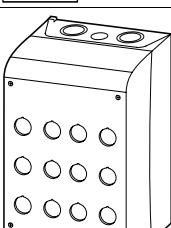


Inscription	For use with	Colour, symbol	Style: flush		Style: extended		Std. pack
			Part no. Article no.	Price see price list	Part no. Article no.	Price see price list	
Button lenses for illuminated pushbutton actuators							10 off
≤ 5 characters: letter height 5 mm >5 characters: letter height 3 mm							
RESET	M22(S)-DL-X M22(S)-DRL-X M22S-DGL-X		M22-XDL-B-GB14 218336		M22-XDLH-B-GB14 218379		
FORWARD			M22-XDL-W-GB15 218337		M22-XDLH-W-GB15 218380		
REVERSE			M22-XDL-W-GB16 218338		M22-XDLH-W-GB16 218381		
RAISE			M22-XDL-W-GB17 218339		M22-XDLH-W-GB17 218382		
LOWER			M22-XDL-W-GB18 218340		M22-XDLH-W-GB18 218383		
STOP			M22-XDL-R-X0 218159		M22-XDLH-R-X0 218161		
STOP			M22-XDL-W-X0 218160		M22-XDLH-W-X0 218162		
START			M22-XDL-G-X1 218295		M22-XDLH-G-X1 218341		
START			M22-XDL-W-X1 218296		M22-XDLH-W-X1 218342		
START			M22-XDL-G-X2 218297		M22-XDLH-G-X2 218343		
START			M22-XDL-W-X2 218301		M22-XDLH-W-X2 218344		
Increase			M22-XDL-W-X4 218302		M22-XDLH-W-X4 218345		
Decrease			M22-XDL-W-X5 218303		M22-XDLH-W-X5 218346		
Reset			M22-XDL-B-X6 218304		M22-XDLH-B-X6 218347		
Directions of movement			M22-XDL-W-X7 218305		M22-XDLH-W-X7 218348		
Directions of movement			M22-XDL-W-X8 218306		M22-XDLH-W-X8 218349		
Manual			M22-XDL-W-X9 218307		M22-XDLH-W-X9 218350		
Automatic			M22-XDL-W-X10 218308		M22-XDLH-W-X10 218351		
Inch			M22-XDL-W-X11 218309		M22-XDLH-W-X11 218352		
Unlock		M22-XDL-W-X12 218310		M22-XDLH-W-X12 218353			
Unclamp		M22-XDL-W-X13 218311		M22-XDLH-W-X13 218354			
Clamp		M22-XDL-W-X14 218312		M22-XDLH-W-X14 218355			
Release		M22-XDL-W-X15 218313		M22-XDLH-W-X15 218356			
Liquid		M22-XDL-W-X16 218314		M22-XDLH-W-X16 218357			
Klaxon		M22-XDL-W-X17 218315		M22-XDLH-W-X17 218358			



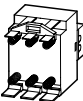
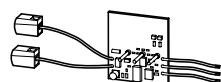
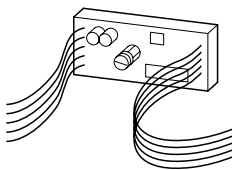
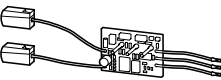
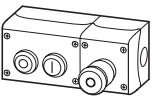


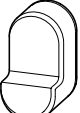
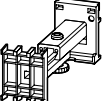
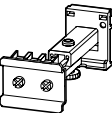
		Protection type	Locations	Colour	Cable entry knockouts	Part no. Article no.	Price see price list	Std. pack
			Number		Quantity × M20			
Flush mounting plates								
No legend plates possible when arranged in column. Degree of protection only in conjunction with a suitable enclosure and correct mounting.								
Aluminium, with yellow paint finish for Emergency-Stop buttons		IP65	1		RAL 1004	—	M22-EY1 216542	5 off
Aluminium, light anodized			1		RAL 7035	—	M22-E1 216541	
			2			—	M22-E2 216543	
			3			—	M22-E3 216544	
			4			—	M22-E4 216545	1 off
			5			—	M22-E5 216546	
		IP40	6			—	M22-E6 216547	
Shrouds								
Plastic, light grey								
		IP55	1		RAL 7035	3	M22-H1 216548	1 off
			2			4	M22-H2 216549	
			3			4	M22-H3 216550	
		IP40	4			4	M22-H4 216551	
			5			5	M22-H5 216552	
			6			6	M22-H6 216553	
Set of plaster keys								
Consists of two plaster keys as an aid for flush mounting of shrouds in plaster								
	—	—	—	—	—	M22-UPE 216554		1 off

		Locations	Cable entry knockouts		Colour		Part no. Article no.	Price see price list	Std. pack
			Bottom	Sides					
		Number	Quantity × M...	Quantity × M...					
Surface mounting enclosure, IP67, 69K									
With high-grade steel screws Enclosure base: anthracite (RAL 9005) ATEX  ATEX part numbers for use in dust-laden areas, Zone 22, Category 3 (→ Engineering) M22-I6 with degree of protection IP66 									
	For Emergency-Stop buttons	1	2 × 16	1 × 20 2 × 25/20		RAL 1004	M22-IY1 216536	1 off	
		1	2 × 16	1 × 20 2 × 25/20		RAL 1004	M22-IY1-ATEX 104370		
	1	2 × 16	1 × 20 2 × 25/20		RAL 7035	M22-I1 216535			
	1	2 × 16	1 × 20 2 × 25/20		RAL 7035	M22-I1-ATEX 104371			
	2	2 × 20	1 × 20 2 × 25/20		RAL 7035	M22-I2 216537			
	2	2 × 20	1 × 20 2 × 25/20		RAL 7035	M22-I2-ATEX 104372			
	3	2 × 20	2 × 20 2 × 25/20		RAL 7035	M22-I3 216538			
	3	2 × 20	2 × 20 2 × 25/20		RAL 7035	M22-I3-ATEX 104373			
	4	2 × 20	2 × 20 2 × 25/20		RAL 7035	M22-I4 216539			
	4	2 × 20	2 × 20 2 × 25/20		RAL 7035	M22-I4-ATEX 104374			
	6	2 × 20	2 × 20 2 × 25/20		RAL 7035	M22-I6 216540			
	6	2 × 20	2 × 20 2 × 25/20		RAL 7035	M22-I6-ATEX 104375			
Connecting screw: M20, IP67									
To connect up any M22-I... surface mounting enclosures Fitting through M20 cable entry in the side									
	–	–	–	–	–	–	M22-XI 229162	25 off	
M20 metric cable glands according to EN 50262									
• With lock nut and integral strain relief • IP68, 69K, halogen free • External diameter of cable, 6 – 13 mm									
	–	–	–	–	–	–	V-M20 206910	20 off	
Surface mounting enclosures, IP55									
Including mounting plate for base fixing Enclosure base: anthracite (RAL 9005) 									
	12	2 × 32/25	2 × 20 4 × 32/25		RAL 7035	M22-I12 222688	1 off		



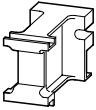
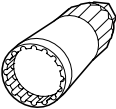
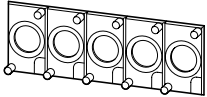
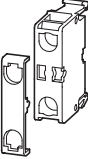


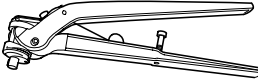
Description				Part no. Article no.	Price see price list	Std. pack
AS-Interface connection for RMQ-Titan						
	For flush mounting panel (RMQ-Titan)	AS-Interface slave Adapter element for RMQ-Titan AS-Interface information: 2 input bits, 1 output bit Module enclosure to snap onto the contact and LED elements: – inputs for 2 contact sets: M22-K01 (N/C), M22-K10 (N/O) – Output for 1 LED element: M22-LED-... Including AS-Interface connector as insulation piercing terminal		M22-ASI 231269		1 off
	For base fixing (RMQ-Titan)	Adapter element for RMQ-Titan AS-Interface information: 2 input bits, 1 output bit – Inputs for 2 contacts – Output for 1 LED element: M22-LED-...		M22-ASI-C 231271		
	For surface mounting enclosures (RMQ-Titan)	External connections: 4 inputs/4 outputs (for RMQ contact blocks and lamp socket elements) Surface mounting enclosures RMQ-Titan: M22-I3, M22-I4, M22-I6		RMQ-M1C-ASI 032314		
	For surface mounting enclosure (RMQ16)	External connections: 4 inputs/4 outputs (for RMQ contact blocks and lamp socket elements) Surface mounting enclosure, flush mounting plate RMQ16: I8, E8, E8-SW		RMQ-M2C-ASI 032315		
Emergency-Stop connections for AS-Interface – for safety monitor						
	For front fixing	AS-Interface slave Adapter element for RMQ-Titan AS-Interface information: 1 dual-channel input, 1 output Module enclosure to snap onto the contact and LED elements: Inputs for 2 contact elements: M22-K01 (N/C) – Output for 1 LED element: M22-LED-... Including AS-Interface connector as insulation piercing terminal		M22-ASI-S 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 blocks and LED's: - Inputs for 2 contact blocks M22-K01 or M22-KC01 (N/C) – Output for 1 LED element: M22-LED-...		M22-ASI-CS 231272		1 off
AS-Interface complete device						
		• M22-I2 and M22-I2Y surface mounting enclosures • M22-PVL emergency-off pushbutton and ON-OFF pushbutton; ON illuminated • 1 × M22-ASI-CS and 1 × M22-ASI-C • 1 × M12A connector • Addressing M22-PVL → 0; ON-OFF 1 A		M22-I1/2-M1-ASI 107405		1 off
Lifespan to EN 60064 at t_a = +25 °C t_{mean} (AC) h Colour				Part no. Article no.	Price see price list	Std. pack
BA 9s filament bulbs for compact indicator lights						
High-grade versions from selected manufacturers						
	110 – 130 V/2.4 W	2000	–	A22-GL130 261361		100 off
	24 V/2.0 W	5000	–	A22-GL24 261360		100 off
BA 9s single-chip LEDs for compact indicator lights						
For AC and DC (positive pole connected to X1), protected against polarity reversal, built-in suppressor circuit up to 1500 V						
	18 ... 30 V AC/DC, 15 mA	100000		white	A22-LED-W 261362	10 off
				Red	A22-LED-R 261364	
				Green	A22-LED-G 261363	
				Yellow	A22-LED-Y 261365	

For use with	Colour	Part no. Article no.	Price see price list	Std. pack	Notes
Front ring gold (24 carat)					
Front ring not supplied individually: To order exclusively via Moeller Sales Offices as M22-Combination-* (customised complete units).					
	—	M22-FR-AU 274150		1 off	
Blanking plugs, IP67, IP69K					
ATEX  → Engineering Round style For closing off of spare mounting locations					
		RAL 7035	M22-B 216388	50 off	
		RAL 7035	M22-B-GVP 216389	250 off	
		RAL 9005	M22S-B 216390	50 off	
		RAL 9005	M22S-B-GVP 216391	250 off	
Actuator diaphragms for IP67, IP69K, silicone					
ATEX  → Engineering Transparent version for aggravated environmental conditions and for use in the food industry, Do not use in conjunction with M22S-ST legend plate mount, since degree of protection cannot be guaranteed.					
	—	M22(S)-D(R)-... M22(S)-DL-..., M22(S)-DRL-... M22(S)-L(C)-...	M22-T-D 216395	10 off	
	—	M22(S)-DDL...	M22-T-DD 216396	10 off	
Protective diaphragm, silicone					
ATEX  → Engineering Prevents ingress of dirt and dust into the key opening					
	—	M22-WS...	M22-XWS 231275	5 off	
Telescopic clip					
For adjusting the mounting depth of rear mounting devices in CI enclosures and panels with a mounting depth of 115 – 155 mm. Stepless adjustment, screw fixing and snap fitting (top-hat rail to IEC/EN 60715). Maximum of 10 M22-TC per enclosure, 5 of which can hold stay-put actuators. Do not use in conjunction with Emergency-Stop actuators					
Three contact/LED elements with base fixing, incl. centring adapter					
	—		M22-TC 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	M22-TA 226161	1 off	Steplessly adjustable by means of a scale, from 75 – 115 mm.



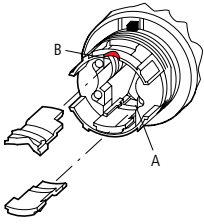


	For use with	Colour	Part no. Article no.	Price see price list	Std. pack
Extension					
	Telescopic clip for a mounting depth up to 205 mm	–	M22-TCV 225527		5 off
IVS top-hat rail adapter					
	IEC/EN 60715 top-hat rail for front fixing	–	M22-IVS 216400		1 off
Plunger bridge					
For actuating the middle 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	–	M22-XW 216405		10 off
Guard ring, IP66					
ATEX  → Engineering To protect against accidental operation					
	For pushbutton and selector switch actuators (button plates cannot be used)	–	M22-XGWK 231274		5 off
Threaded ring					
M22 × 1.5 mm					
		–	M22-GR 216401		50 off
		–	M22-GR-GVP 216404		500 off
Set of adapter rings, 30/22.3 mm, IP67, IP69K					
Black, consisting of adapter ring and fixing nut					
	Mounting of Ø 22.3 devices In Ø 30.5 drill holes. Degree of protection is determined by the front element.		M22S-R30 216408		10 off
Combination box spanner					
	Threaded ring, can be fitted on to electric screwdriver	–	M22-MS 216402		5 off
Fixing plate					
	M22-H... shrouds to the M22-E... flush mounting panel for up to 5 mounting locations		M22-XE5 218945		1 off
Dust cover					
	For M22-K... contacts	–	M22-XKDP 100647		50 off
Dust cover					
For 1 M22... device 5 x M20 knockouts					
	Max. 3 contacts	–	M22-ADC 106523		1 off
	Max. 4 contacts	–	M22-ADC4 106524		1 off

For use with	Col- our	Part no. Article no.	Price see price list	Std. pack	Notes
Built-in 2.0 A/A USB socket with connection cable					
IP65 with closed cover IP20 with plug connected					
 Front mounting Prefabricated cable with permanently connected USB 2.0 Type A plug	–	M22-USB-SA 107412		1 off	
Built-in RJ45 socket					
IP65 with closed cover IP20 with plug connected					
 Front mounting RJ45, 8/8	–	M22-RJ45-SA 107413		1 off	
Blade terminal to DIN 46244					
For connection of insulated ferrules for: main cables up to 25 A, 1 × 6.3 mm (DIN 46245) control circuit cables up to 6 A, 2 × 2.8 mm (DIN 46247)					
 DILEM, DILM17 – DILM1000 DILE... DILET... M22-K...	–	BT483 059904		100 off	Use insulated ferrules to DIN 46245.
Push-buttons					
For enclosed overload relays Mounting diameter: 22.3 mm					
 ZW7... ZB12 ZB32 ZB65 ZB150	–	M22-DZ-B 254833		10 off	Blue button plate
	–	M22-DZ-B-GB14 254834		10 off	Blue button plate: RESET
 M22-DZ-X M22(S)-D-X M22(S)-DR-X M22-DG-X	–	M22-DZ-X 254835		10 off	Without button plate, button plate must be added
		M22-XD-R 216423		10 off	Red legend plate
		M22-XD-R-X0 218153		10 off	Button plate, red with white circle
		M22-XD-R-GB0 218194		10 off	Red legend plate STOP
Bulb extractor					
Compact indicating lamp M22-LC(H)...					
 A22-GL... A22-LED...	–	M22-LG 216403		5 off	
Notching tool					
Punching tool to produce the cutout for the anti-rotation lug to IEC/EN 60947-5-1 St 37 sheet steel, max. 3 mm thick VA high-grade steel max. 1.5 mm thick,					
	–	BA/C-NZ-22 028144		1 off	Price cannot be discounted
ATEX (Only in conjunction with M22-COMBINATION-*)					
For use in accordance with the ATEX directive in dust-laden areas, Zone 22, Category 3 → Engineering	–	M22-ATEX 104380		1 off	
Customer specific complete devices					
→ Engineering	–	M22-COMBINATION-* 228298		1 off	



For conversion between stay-put and spring-return functions and for changing the key withdrawability for selector switch actuators with 3 positions



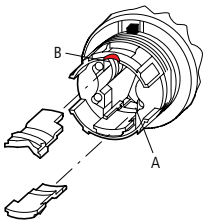
		I	O	II
		A	B	
60	↙ 60	–	✓	–
50	↙ 50	–	✓	–
60	↙ 50	–	✓	–
50	↙ 60	–	✓	–
40	↙ 40	–	✓	–
60	↙ 40	–	✓	–
50	↙ 40	–	✓	–
40	↙ 60	–	✓	–
40	↙ 50	–	✓	–

✓ = Key withdrawable
✗ = Key not withdrawable

Coding adapters

M22-XC-Y, → page 2/15
 M22-XC-R, → page 2/15

For conversion between stay-put and spring-return functions and for changing the key withdrawability for selector switch actuators with 3 positions



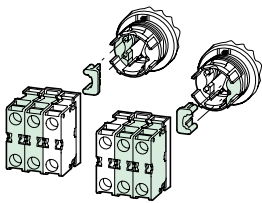
		O	I
		B	
↙ 60°	✓	–	✓
↙ 50°	✓	–	✓
↙ 40°	✓	–	✓

✓ = Key withdrawable
✗ = Key not withdrawable

Coding adapters

M22-XC-Y, → page 2/15
 M22-XC-R, → page 2/15

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



Individual inscription of devices using the Labeleditor software

Individually inscribe your device in 4 stages:

- Download the inscription software: www.moeller.net/support, keyword: "Labeleditor".
- Creation of 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_Titan_12345.zip". This file name is part of the article to be ordered (see Ordering examples).
- Send order to the Moeller sales 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 × M22-XST-RMQ_Titan_XXXXX.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 × M22-XDH-G-RMQ_Titan_XXXXX.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 × M22-DDL-W-RMQ_Titan_XXXXX.zip-RMQ_Titan_XXXXX.zip

- Key-operated actuator, 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 generated by Labeleditor

Please order: 1 x M22-WRS2-MS1-RMQ_Titan_XXXXX.zip

ATEX

ATEX = Atmospheres Explosibles = explosive atmospheres

Moeller complies with the regulations for manufacturers: ATEX Directive 94/9 EC (binding from 06/2003)

Devices from the RMQ-Titan and FAK range. 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 etc. have the equipment code II3D IP5X T85°C. In accordance with the regulations applicable to the operator, Directive 1999/92/EC (binding since 06/2006), approved devices with test number BVS 06 ATEX E023U, BVS 06 ATEX E024 may be used in dust-laden areas, Zone 22, Category 3. The devices in surface mounting enclosures with ATEX approval can be used in explosive dust dangerous areas, for example, mills, metal grinding, saw mills, woodworking, cement works, the aluminium industry, the animal foodstuff industry, cereal storage and preparation, agriculture and pharmaceutical industry.

ATEX ordering examples:

- M22 complete unit
M22-COMBINATION-* User-definable customer ID; up to 10 characters
→ page 2/39
M22-I1-ATEX ATEX housing → page 2/35
M22-D-S Pushbutton → page 2/10
M22-KC10 Contact (N/O) → page 2/22
M22-KC01 Contact (N/C) → page 2/22

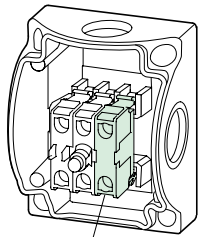
- M22 front element
M22-COMBINATION-* User-definable customer ID; up to 10 characters
→ page 2/39
M22-D-S Pushbutton → page 2/10
M22-ATEX ATEX complement → page 2/39

- FAK complete unit
FAK-COMBINATION-* User-definable customer ID; up to 10 characters
→ page 2/6
FAK-ATEX ATEX complement → page 2/6
FAK-IU Enclosure base → page 2/6
FAK-S Enclosure top → page 2/6
M22-KC10 N/O contact → page 2/22
M22-KC01 N/C contact → page 2/22
Control Circuit Devices RMQ-Titan

LED series resistor elements

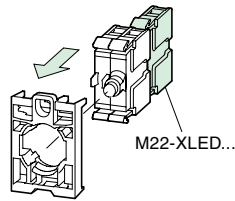
M22-XLED

Surface mounting enclosures

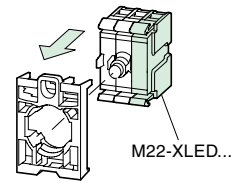


M22-XLED...

Flush mounting at the rear

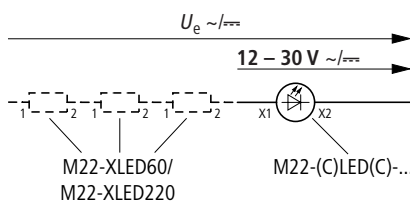


Flush mounting at the side



LED resistor element

M22-XLED60/M22-XLED220

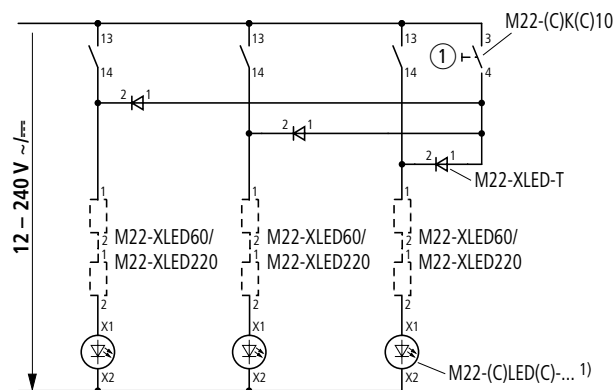


M22-XLED60	1 ×	2 ×	3 ×	4 ×	5 ×	6 ×	7 ×
$U_e [AC/DC] \leq$	60 V	90 V	120 V	150 V	180 V	210 V	240 V

M22-XLED220	1 ×
$U_e [DC] \leq$	220 V

LED test element

M22-XLED-T

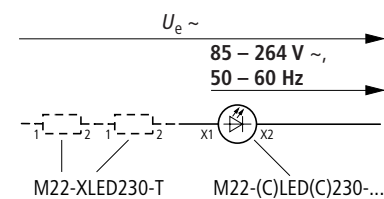
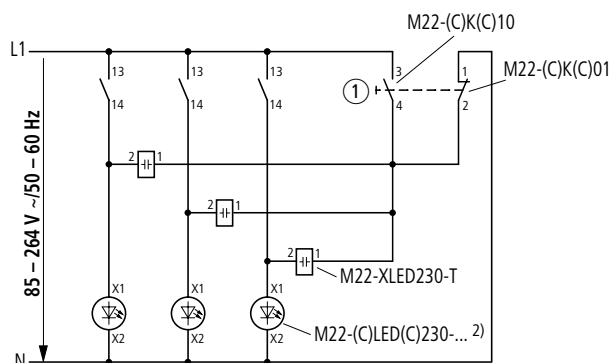


① Test button

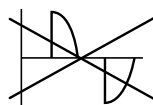
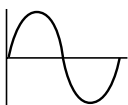
1) Only for 12 ... 30 V elements

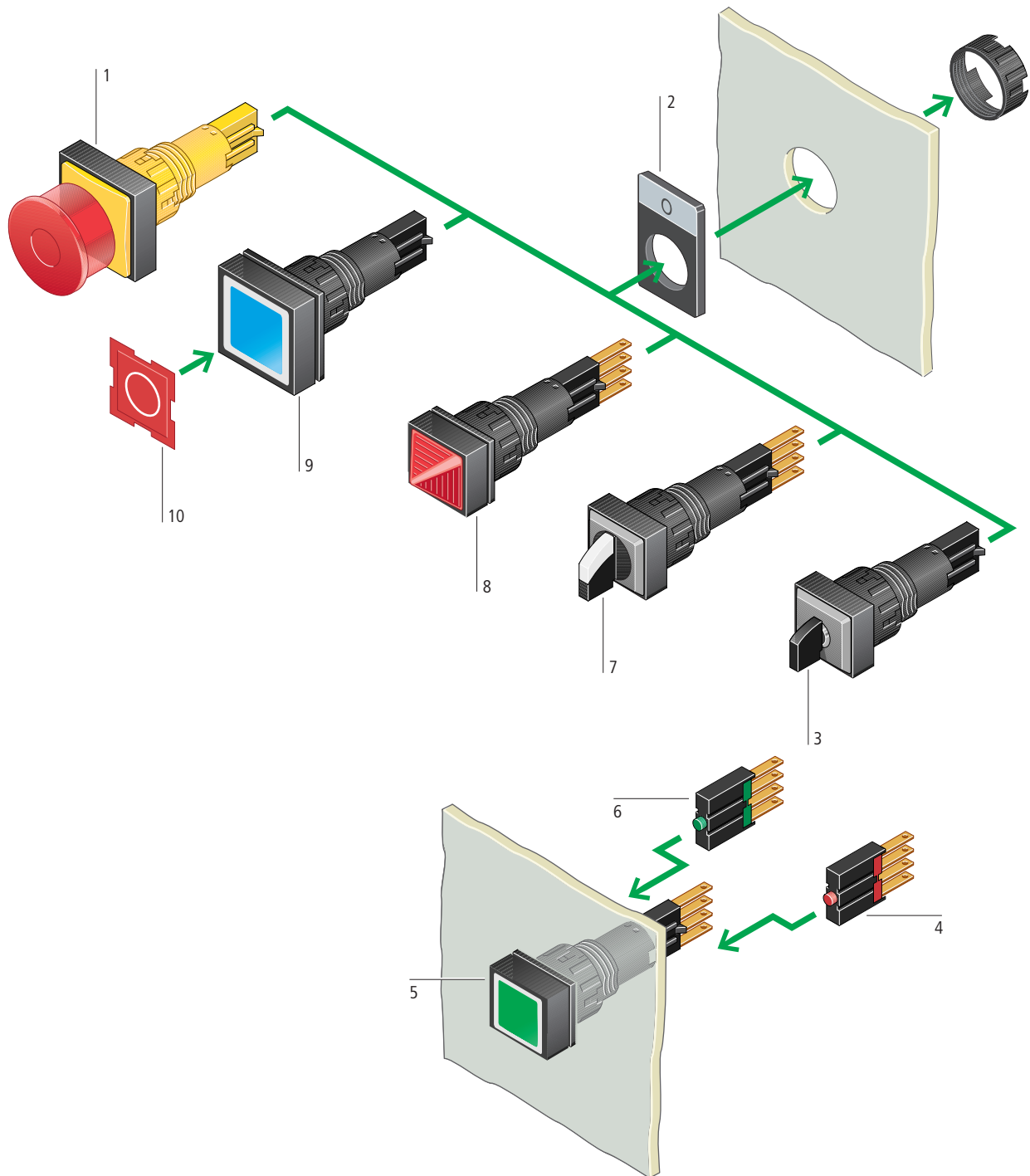
2) For 85 ... 264 V elements

M22-XLED230-T



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





Emergency-Stop actuators	1
Tamper-proof according to ISO 13850/EN 418	
Illuminated and non-illuminated	
Legend plates with and without inscription	



→ Page 2/50

Label mounts	2
For insert plates	
Colour: light grey, black, yellow	
Insert labels, with text and blank	

→ Page 2/54

Key-operated actuators	3
2 and 3 positions	
Switching angle 45	
Spring-return and stay-put	
Various lock mechanisms	

→ Page 2/48

Break contact element (red)	4
With blade terminal	
Universal contacts suitable for use with electronic devices	
Positive opening safety function according to IEC/EN 60947-5-1	

→ Page 2/44

Illuminated pushbuttons	5
Spring-return and stay-put	
Replaceable insert plates	
Colour: white, green, red, yellow, blue	
individual laser inscription (→ page 2/57)	

→ Page 2/45

Make contact element (green)	6
With blade terminal	
Universal contacts suitable for use with electronic devices	

→ Page 2/44

Selector switch actuators	7
2 and 3 positions	
Switching angle 45	
Spring-return and stay-put	
Illuminated selector switch actuators with built-in bulb socket	
Colours: white, green, red.	

→ Page 2/46

Indicator light	8
Flush and conical versions	
Built-in lamp socket	
For filament bulbs and LEDs	
Colours: white, green, red, yellow, blue	
individual laser inscription (→ page 2/57)	

→ Page 2/49

Pushbutton actuators	9
Spring-return and stay-put	
Replaceable button plates	
Colours: white, green, red, yellow, blue, black	

→ Page 2/44

Button plates/Insert plates	10
Wear-resistant button plates for pushbutton actuators	
Transparent insert plates for illuminated push-buttons and indicator lights	
With and without inscription	
With standard texts and symbols or with individual laser inscription	

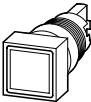
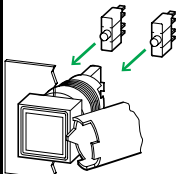
→ Page 2/51

Product features

- Front dimension and minimum grid dimensions
18 × 18 mm or 25 × 25 mm
- Mounting diameter 16.2 mm to EN 50007
- Degree of protection 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





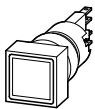
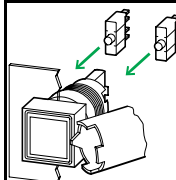
		Square style Front dimensions:			Std. pack	Notes
Colour of button plate		18 × 18 mm	25 × 25 mm	Price		
	Part no. Article no.	Part no. Article no.	see price list			
Pushbutton actuators, IP65						
		Q18D-11 086332	Q25D-11 090471		10 off	
		Q18D-10 086299	Q25D-10 090421			
		Q18D-20 054041	Q25D-20 054038			
		Q18D-19 054040	Q25D-19 054039			
		Q18D-SW 086788	Q25D-SW 087230			
		Q18D-WS 086752	Q25D-WS 086808			
		Q18D-GN 086450	Q25D-GN 086409			
		Q18D-RT 086713	Q25D-RT 086444			
		Q18D-GE 086417	Q25D-GE 086343			
		Q18D-BL 086384	Q25D-BL 086328			
	Without	Q18D-X 093623	Q25D-X 093624			
Stayput						
		Q18DR-SW 086269	Q25DR-SW 088739		10 off	
		Q18DR-WS 086243	Q25DR-WS 088701			
		Q18DR-GN 086176	Q25DR-GN 088531			
		Q18DR-RT 086209	Q25DR-RT 088627			
		Q18DR-GE 090482	Q25DR-GE 088404			
		Q18DR-BL 090241	Q25DR-BL 088110			
Without	Q18DR-X 093625	Q25DR-X 093626				

Contacts N/O = normally open contact, N/C = normally closed contact ⊕ = positive opening safety function according to IEC/EN 60947-5-1		Contact sequence	Contact diagram	Colour	Part no. Article no.	Price see price list	Std. pack
Contact elements Admissible operational voltage: 5 – 250 V							
	1 N/O				E10 090351		50 off
	1 N/C ⊕				E01 090401		50 off

Notes

¹⁾ The graphic symbol has the following meaning:

$\begin{matrix} |_{xy} \\ \backslash_{xy} \end{matrix}$ x = sequence number on front element
y = function number on contact element

Lens		Square style			Std. pack	Notes
		18 × 18 mm Part no. Article no.	25 × 25 mm Part no. Article no.	Price see price list		
Illuminated pushbuttons, IP65						
Springreturn Without filament bulb 		Q18LT-WS 089202	Q25LT-WS 086262		10 off	
		Q18LT-GN 089067	Q25LT-GN 086206			
		Q18LT-RT 089776	Q25LT-RT 086238			
		Q18LT-GE 088808	Q25LT-GE 086173			
		Q18LT-BL 088764	Q25LT-BL 090479			
	Without lens, → page 2/57	Q18LT-X 051745	Q25LT-X 051746		10 off	
With filament bulb, 24 V		Q18LT-WS/WB 088561	Q25LT-WS/WB 090226		10 off	Accessories Assembly aids and accessories Contact elements N/O contact → 2/44 N/O contact → 2/44
		Q18LT-GN/WB 088509	Q25LT-GN/WB 089190			
		Q18LT-RT/WB 088537	Q25LT-RT/WB 089998			
		Q18LT-GE/WB 088449	Q25LT-GE/WB 089137			
		Q18LT-BL/WB 088338	Q25LT-BL/WB 089102			
	Without lens, → page 2/57	Q18LTR-X 051735	Q25LTR-X 051736		10 off	
Stayput Without filament bulb		Q18LTR-WS 088123	Q25LTR-WS 087232		10 off	
		Q18LTR-GN 087831	Q25LTR-GN 086812			
		Q18LTR-RT 087918	Q25LTR-RT 086840			
		Q18LTR-GE 087764	Q25LTR-GE 086784			
		Q18LTR-BL 086813	Q25LTR-BL 086739			
	Without lens, → page 2/57	Q18LTR-X 051735	Q25LTR-X 051736		10 off	
With filament bulb, 24 V		Q18LTR-WS/WB 086708	Q25LTR-WS/WB 086447		10 off	
		Q18LTR-GN/WB 086413	Q25LTR-GN/WB 086380			
		Q18LTR-RT/WB 086448	Q25LTR-RT/WB 086412			
		Q18LTR-GE/WB 086382	Q25LTR-GE/WB 086346			
		Q18LTR-BL/WB 086348	Q25LTR-BL/WB 086330			
	Without lens, → page 2/57	Q18LTR-X 051735	Q25LTR-X 051736		10 off	

Contacts N/O = normally open contact, N/C = normally closed contact ⊕ = positive opening safety function according to	Contact sequence	Contact diagram	Colour	Part no. Article no.	Price see price list	Std. pack
Contact elements Admissible operational voltage: 5 – 250 V 	1 N/O			E10 090351		50 off
	1 N/C ⊕			E01 090401		50 off

Notes
¹⁾ The graphic symbol has the following meaning:

$\begin{matrix} |_{xy} \\ |_{xy} \end{matrix}$ x = sequence number on front element
 y = function number on contact element



Function: Colour

▷ = spring-return

└ = stay-put

18 × 18

Part no.
Article no.

25 × 25

Part no.
Article no.Price
see price
list

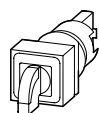
Std. pack

Notes

Selector switch actuators, IP65

Incl. VS anti-rotation feature

2 positions



▷ 45°

**Q18WK1**
036515**Q25WK1**
036599

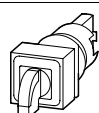
5 off

└ 45°

**Q18WK1R**
036598**Q25WK1R**
036600

5 off

3 positions



45° ⇄ 45°

**Q18WK3**
072308**Q25WK3**
072372

5 off

45° ↓ 45°

**Q18WK3R**
072309**Q25WK3R**
072373

5 off

45° ⇄ 45°

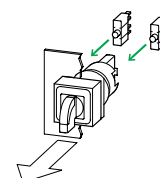
**Q18WK3R1**
072310**Q25WK3R1**
072374

5 off

45° ⇄ 45°

**Q18WK3R2**
072311**Q25WK3R2**
072375

5 off

**Accessories**Assembly aids and
accessories

Contact blocks

N/O contact

N/C contact

Page

→ page 2/56

→ page 2/44

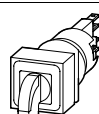
→ page 2/44

Illuminated selector pushbuttons IP65

Incl. VS anti-rotation feature

Without filament bulb

2 positions



▷ 45°

**Q18LWK1-WS**
040349**Q25LWK1-WS**
040658

5 off

▷ 45°

**Q18LWK1-RT**
039337**Q25LWK1-RT**
040657

5 off

▷ 45°

**Q18LWK1-GN**
039336**Q25LWK1-GN**
040656

5 off

└ 45°

**Q18LWK1R-WS**
040376**Q25LWK1R-WS**
040661

5 off

└ 45°

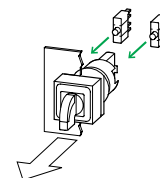
**Q18LWK1R-RT**
040351**Q25LWK1R-RT**
040660

5 off

└ 45°

**Q18LWK1R-GN**
040350**Q25LWK1R-GN**
040659

5 off

**Accessories**Assembly aids and
accessories

Contact blocks

N/O contact

N/C contact

Page

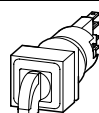
→ page 2/56

→ page 2/44

→ page 2/44

With filament bulb

2 positions



▷ 45°

**Q18LWK1-WS/WB**
038978**Q25LWK1-WS/WB**
040379

5 off

▷ 45°

**Q18LWK1-RT/WB**
038930**Q25LWK1-RT/WB**
040378

5 off

▷ 45°

**Q18LWK1-GN/WB**
038883**Q25LWK1-GN/WB**
040377

5 off

└ 45°

**Q18LWK1R-WS/WB**
039335**Q25LWK1R-WS/WB**
040476

5 off

└ 45°

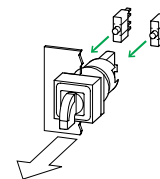
**Q18LWK1R-RT/WB**
039248**Q25LWK1R-RT/WB**
040381

5 off

└ 45°

**Q18LWK1R-GN/WB**
039247**Q25LWK1R-GN/WB**
040380

5 off

**Accessories**Assembly aids and
accessories

Contact blocks

N/O contact

N/C contact

Page

→ page 2/56

→ page 2/44

→ page 2/44

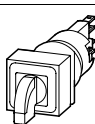
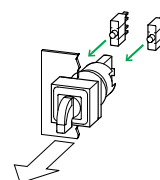
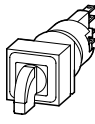
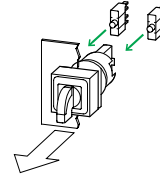


Illuminated selector switch actuators

http://catalog.moeller.net

Moeller HPL0211-2007/2008

Q18LWK..., Q25LWK... **xCommand**

Function:		Colour	18 × 18 Part no. Article no.	25 × 25 Part no. Article no.	Price see price list	Std. pack	Notes
└> = spring-return							
└> = stay-put							
Illuminated selector pushbuttons IP65							
Incl. VS anti-rotation feature							
Without filament bulb 3 positions							
	45°↕45°	○	Q18LWK3-WS 072322	Q25LWK3-WS 072358		5 off	
	45°↕45°	●	Q18LWK3-RT 072323	Q25LWK3-RT 072359		5 off	
	45°↕45°	●	Q18LWK3-GN 072324	Q25LWK3-GN 072360		5 off	
	45°↕45°	○	Q18LWK3R-WS 072325	Q25LWK3R-WS 072361		5 off	
	45°↕45°	●	Q18LWK3R-RT 072326	Q25LWK3R-RT 072362		5 off	
	45°↕45°	●	Q18LWK3R-GN 072327	Q25LWK3R-GN 072363		5 off	
	45°↕45°	○	Q18LWK3R1-WS 072328	Q25LWK3R1-WS 072364		5 off	
	45°↕45°	●	Q18LWK3R1-RT 072329	Q25LWK3R1-RT 072365		5 off	
	45°↕45°	●	Q18LWK3R1-GN 072330	Q25LWK3R1-GN 072366		5 off	
	45°↕45°	○	Q18LWK3R2-WS 072331	Q25LWK3R2-WS 072367		5 off	
	45°↕45°	●	Q18LWK3R2-RT 072332	Q25LWK3R2-RT 072368		5 off	
	45°↕45°	●	Q18LWK3R2-GN 072333	Q25LWK3R2-GN 072369		5 off	
With filament bulb 3 positions							
	45°↕45°	○	Q18LWK3-WS/WB 072334	Q25LWK3-WS/WB 072346		5 off	
	45°↕45°	●	Q18LWK3-RT/WB 072335	Q25LWK3-RT/WB 072347		5 off	
	45°↕45°	●	Q18LWK3-GN/WB 072336	Q25LWK3-GN/WB 072348		5 off	
	45°↕45°	○	Q18LWK3R-WS/WB 072337	Q25LWK3R-WS/WB 072349		5 off	
	45°↕45°	●	Q18LWK3R-RT/WB 072338	Q25LWK3R-RT/WB 072350		5 off	
	45°↕45°	●	Q18LWK3R-GN/WB 072339	Q25LWK3R-GN/WB 072351		5 off	
	45°↕45°	○	Q18LWK3R1-WS/WB 072340	Q25LWK3R1-WS/WB 072352		5 off	
	45°↕45°	●	Q18LWK3R1-RT/WB 072341	Q25LWK3R1-RT/WB 072353		5 off	
	45°↕45°	●	Q18LWK3R1-GN/WB 072342	Q25LWK3R1-GN/WB 072354		5 off	
	45°↕45°	○	Q18LWK3R2-WS/WB 072343	Q25LWK3R2-WS/WB 072355		5 off	
	45°↕45°	●	Q18LWK3R2-RT/WB 072344	Q25LWK3R2-RT/WB 072356		5 off	
	45°↕45°	●	Q18LWK3R2-GN/WB 072345	Q25LWK3R2-GN/WB 072357		5 off	

Accessories

Assembly aids and accessories

Contact blocks

N/O contact

N/C contact

Page
→ page 2/5

→ page 2/4
→ page 2/4

AccessoriesAssembly aids and
accessories

Contact blocks

N/O contact

N/C contact

Page

→ page 2/56

→ page 2/44

→ page 2/44

AccessoriesAssembly aids and
accessories

Contact blocks

N/O contact

N/C contact

Page

→ page 2/56

→ page 2/44

→ page 2/44



Function:

Key
withdrawable
in positionCol-
our

18 × 18

Part no.
Article no.

25 × 25

Part no.
Article no.Price
see price
list

Std. pack

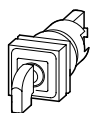
Notes

 = spring-return
 = stay-put

IP65, key-operated actuators

With 1 key and VS anti-rotation feature
for each colour there is a corresponding key, → page 2/57

2 positions



 45°	0	
 45°	0	
 45°	0	
 45°	0	
 45°	0	
 45°	0	
 45°	0	
 45°	0	
 45°	0	
 45°	0	
 45°	0	

Q18S1 038806
Q18S1R 038805
Q18S1R-A1 072312
Q18S1-GN 062148
Q18S1R-GN 062151
Q18S1-RT 046841
Q18S1R-RT 046837
Q18S1-WS 046849
Q18S1R-WS 046845
Q18S1-BL 045959
Q18S1R-BL 062814

Q25S1 038773
Q25S1R 038772
Q25S1R-A1 072376
Q25S1-GN 062150
Q25S1R-GN 062108
Q25S1-RT 046843
Q25S1R-RT 046839
Q25S1-WS 046851
Q25S1R-WS 046847
Q25S1-BL 046835
Q25S1R-BL 045502

5 off

5 off

5 off

5 off

5 off

5 off

5 off

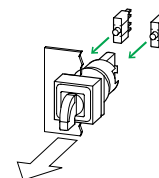
5 off

5 off

5 off

5 off

5 off



Accessories

Assembly aids and
accessories

Contact blocks

N/O contact

N/C contact

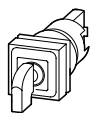
Page

→ page 2/56

→ page 2/44

→ page 2/44

3 positions



45°  45°	0	
45°  45°	0	
45°  45°	0	
45°  45°	I 0	
45°  45°	0	
45°  45°	I 0	
45°  45°	0	
45°  45°	0	
45°  45°	0	
45°  45°	0	
45°  45°	0	
45°  45°	0	
45°  45°	0	
45°  45°	0	
45°  45°	0	
45°  45°	0	
45°  45°	0	
45°  45°	0	
45°  45°	0	
45°  45°	0	
45°  45°	0	
45°  45°	0	
45°  45°	0	
45°  45°	0	
45°  45°	0	
45°  45°	0	
45°  45°	0	
45°  45°	0	
45°  45°	0	
45°  45°	0	
45°  45°	0	
45°  45°	0	
45°  45°	0	
45°  45°	0	
45°  45°	0	
45°  45°	0	

Q18S3 072313
Q18S3R 072314
Q18S3R-A1 072315
Q18S3R-A2 072316
Q18S3R-A3 072317
Q18S3R-A4 072318
Q18S3R-A5 072319
Q18S3R-A6 072320
Q18S3R-A7 072321
Q18S3-GN 062149
Q18S3R-GN 062152
Q18S3-RT 046842
Q18S3R-RT 046838
Q18S3-WS 046850
Q18S3R-WS 046846
Q18S3-BL 046368
Q18S3R-BL 064430

Q25S3 072377
Q25S3R 072378
Q25S3R-A1 072379
Q25S3R-A2 072380
Q25S3R-A3 072381
Q25S3R-A4 072382
Q25S3R-A5 072383
Q25S3R-A6 072384
Q25S3R-A7 072385
Q25S3-GN 062153
Q25S3R-GN 062147
Q25S3-RT 046844
Q25S3R-RT 046840
Q25S3-WS 046852
Q25S3R-WS 046848
Q25S3-BL 046836
Q25S3R-BL 045646

5 off

5 off

5 off

5 off

5 off

5 off

5 off

5 off

5 off

5 off

5 off

5 off

5 off

5 off

5 off

5 off

5 off

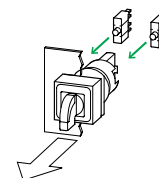
5 off

5 off

5 off

5 off

5 off



Accessories

Assembly aids and
accessories

Contact blocks

N/O contact

N/C contact

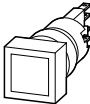
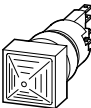
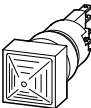
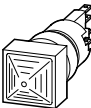
Page

→ page 2/56

→ page 2/44

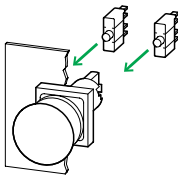
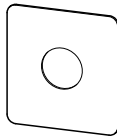
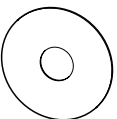
→ page 2/44



		Square style		Price see price list	Std. pack
Lens		18 × 18 mm Part no. Article no.	25 × 25 mm Part no. Article no.		
Indicator light, IP65					
Flush					
Without filament bulb					
		Q18LF-WS 088406	Q25LF-WS 090228		10
		Q18LF-GN 088337	Q25LF-GN 090000		
		Q18LF-RT 088387	Q25LF-RT 090198		
		Q18LF-GE 088303	Q25LF-GE 089252		
		Q18LF-BL 088270	Q25LF-BL 089229		
	Without lens, → page 2/57		Q18LX 051739	Q25LX 051740	
With filament bulb, 24 V					
		Q18LF-WS/WB 088059	Q25LF-WS/WB 089151		10
		Q18LF-GN/WB 087947	Q25LF-GN/WB 088828		
		Q18LF-RT/WB 088001	Q25LF-RT/WB 089104		
		Q18LF-GE/WB 087915	Q25LF-GE/WB 088798		
		Q18LF-BL/WB 087860	Q25LF-BL/WB 088761		
Conical					
Without filament bulb					
		Q18LH-WS 088705	Q25LH-WS 086263		10
		Q18LH-GN 088629	Q25LH-GN 086207		
		Q18LH-RT 088655	Q25LH-RT 086241		
		Q18LH-GE 088585	Q25LH-GE 090481		
		Q18LH-BL 088560	Q25LH-BL 090428		
With filament bulb, 24 V					
		Q18LH-WS/WB 088535	Q25LH-WS/WB 090405		10
		Q18LH-GN/WB 088483	Q25LH-GN/WB 090312		
		Q18LH-RT/WB 088507	Q25LH-RT/WB 090354		
		Q18LH-GE/WB 088448	Q25LH-GE/WB 090285		
		Q18LH-BL/WB 088424	Q25LH-BL/WB 090240		





			 Square style			
	Colour, mush- room, label	25 × 25 mm	Part no. Article no.	Price see price list	Std. pack	Notes
Emergency-Stop actuators, IP65						
Tamperproof according to ISO 13850, EN 418 Button remains in pushed position; release by pulling						
 						
Non-illuminated			Q25PV 072370		5 off	
Illuminated			Q25LPV 072371		2 off	
With built-in multiple LED, 24 V DC, $I_e = 15 \text{ mA}$ Positive pole at X1 No bulb replacement required.						
Emergency-Stop pushbuttons IP65						
Tamperproof according to ISO 13850, EN 418 Button remains in pushed position; release by pulling						
			Q25PV-S 257063		5 off	Accessories Assembly aids and accessories → 2/56 Contact elements N/C contact → 2/44 N/O contact → 2/44
Illuminated			Q25LPV-S 257064		5 off	
With built-in multiple LED, 24 V DC, $I_e = 15 \text{ mA}$ Positive pole at X1 No bulb replacement required.						
Emergency-Stop labels, IP65						
Yellow, black lettering		Square, 50 × 50 mm		SQT1 058874	5 off	
		Round, ø 60 mm		SRT1 058873	5 off	
Blank Not suitable for engraving		Square, 50 × 50 mm		SQ-GE 063263	5 off	
		Round, ø 60 mm		SR-GE 063264	5 off	

Explanation	Colour, symbol	Button plates for push-buttons			Colour, symbol	Transparent insert plates for illuminated push-buttons and indicator light, flush			Std. pack
		18 × 18 mm Part no. Article no.	25 × 25 mm Part no. Article no.	Price see price list		18 × 18 mm Part no. Article no.	25 × 25 mm Part no. Article no.	Price see price list	
Marking plates									
		01TQ18 086816	01TQ25 091121			01LQ18 090231	01LQ25 093180		20
		02TQ18 086859	02TQ25 091149						
		03TQ18 087766	03TQ25 091184						
		04TQ18 087834	04TQ25 091442						
		05TQ18 087867	05TQ25 091471						
		06TQ18 087920	06TQ25 091506						
With inscription to order via Label- editor → Note		XQ18D-*. * 285286				XQ25D-*. * 285287			1
OFF		10TQ18 087951	10TQ25 091536			10LQ18 090243	10LQ25 093225		20
STOP or OFF		19TQ18 054510	19TQ25 054508						
ON		11TQ18 088007	11TQ25 091562			11LQ18 090288	11LQ25 093242		
START or ON		20TQ18 054509	20TQ25 054507						
START or ON		21TQ18 088061	21TQ25 091586						
Direction of movement		32TQ18 088125	32TQ25 091618			32LQ18 090320	32LQ25 093264		
Direction of movement		36TQ18 088275	36TQ25 092592			36LQ18 090410	36LQ25 093330		
Electr. voltage		34TQ18 095386	34TQ25 092563			34LQ18 090368	34LQ25 093307		
Increase		37TQ18 088315	37TQ25 092608			37LQ18 090434	37LQ25 093365		
Decrease		38TQ18 088340	38TQ25 092645			38LQ18 090488	38LQ25 093402		
Hand		40TQ18 088389	40TQ25 092709			40LQ18 086178	40LQ25 093462		
Automatic		41TQ18 088412	41TQ25 092774			41LQ18 086210	41LQ25 093528		
ON–OFF, spring-return		43TQ18 088426	43TQ25 092791			43LQ18 086246	43LQ25 090501		
Unlock		52TQ18 088452	52TQ25 092825			52LQ18 086366	52LQ25 090640		
Lock		53TQ18 088487	53TQ25 092874			53LQ18 086453	53LQ25 090676		
Unclamp		54TQ18 088512	54TQ25 093013			54LQ18 086755	54LQ25 090706		
Clamp		55TQ18 088545	55TQ25 093032			55LQ18 086817	55LQ25 090737		
Liquid START			921TQ25 047426						
Liquid STOP		63TQ18 088566	63TQ25 093060			63LQ18 086861	63LQ25 090776		
Klaxon		66TQ18 088590	66TQ25 093092			66LQ18 087800	66LQ25 090799		
Spindle START			811TQ25 053898						
Spindle STOP			814TQ25 047425						
ON–OFF, stay-put		899TQ18 089232	899TQ25 093063			899LQ18 091008	899LQ25 093184		

Notes

The part numbers XQ18D-*. * or XQ25D-*. * must be supplemented when ordering:
1st wildcard (*) Δ colour, e.g.: -R, -G, -B, -W, -Y, -S
2nd wildcard (*) Δ File name generated byLabelEditor → Engineering





Explanation	Colour, symbol	Button plates for push-buttons			Colour, symbol	Transparent insert plates for illuminated push-buttons and indicator light, flush			Std. pack
		18 × 18 mm Part no. Article no.	25 × 25 mm Part no. Article no.	Price see price list		18 × 18 mm Part no. Article no.	25 × 25 mm Part no. Article no.	Price see price list	
Marking plates									
Direction of movement		911TQ18 089778	911TQ25 093100			911LQ18 091045	911LQ25 093202		20
Direction of movement		912TQ18 090181	912TQ25 093135			912LQ18 091088	912LQ25 093228		
Fault						920LQ18 062106	920LQ25 062107		
		80TQ18 088631	80TQ25 093134			80LQ18 087840	80LQ25 090825		
		81TQ18 088663	81TQ25 093158			81LQ18 087868	81LQ25 090854		
		82TQ18 088715	82TQ25 093178			82LQ18 088343	82LQ25 090869		
		83TQ18 088744	83TQ25 093197			83LQ18 088517	83LQ25 090884		
		84TQ18 088766	84TQ25 093224			84LQ18 088547	84LQ25 090916		
		85TQ18 088811	85TQ25 093241			85LQ18 088567	85LQ25 090937		
		86TQ18 089069	86TQ25 093257			86LQ18 088593	86LQ25 090952		
		87TQ18 089107	87TQ25 093288			87LQ18 088664	87LQ25 090990		
		88TQ18 089165	88TQ25 093305			88LQ18 088721	88LQ25 091021		
		89TQ18 089205	89TQ25 093329			89LQ18 088746	89LQ25 091048		
STOP			110TQ25 093363			110LQ18 088773	110LQ25 091091		
STOP			112TQ25 063748						
ARRET			310TQ25 091446						
START			111TQ25 093399			111LQ18 088813	111LQ25 091126		
START			122TQ25 063746						
MARCHE			311TQ25 091475				311LQ25 093017		
AUS			117TQ25 093434			117LQ18 089073	117LQ25 091154		
AUS			113TQ25 063749						
OFF			217TQ25 090911			217LQ18 090498	217LQ25 092569		
ARRET			317TQ25 091508			310LQ18 090851	310LQ25 092876		
EIN			121TQ25 093461			121LQ18 089173	121LQ25 091188		
EIN			123TQ25 063747						
ON			221TQ25 090934			221LQ18 090524	221LQ25 092597		
MARCHE			321TQ25 091563			311LQ18 090865			

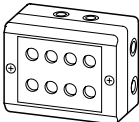
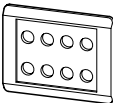
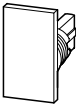
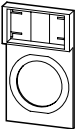
Inscription	Colour, symbol	Button plates for push-buttons			Colour, symbol	Transparent insert plates for illuminated push-buttons and indicator light, flush			Std. pack
		18 × 18 mm Part no. Article no.	25 × 25 mm Part no. Article no.	Price see price list		18 × 18 mm Part no. Article no.	25 × 25 mm Part no. Article no.	Price see price list	
Marking plates									
LINKS			134TQ25 093494			134LQ18 089234	134LQ25 091449		20
LEFT			234TQ25 090987			234LQ18 090665	234LQ25 092611		
GAUCHE			334TQ25 092567			334LQ18 090882	334LQ25 093038		
RECHTS			135TQ25 093527			135LQ18 089877	135LQ25 091477		
RIGHT			235TQ25 091009			235LQ18 090699	235LQ25 092661		
DROITE			335TQ25 092594			335LQ18 090910	335LQ25 093072		
ZU			153TQ25 090632			153LQ18 090185	153LQ25 091510		
CLOSE			253TQ25 091089			253LQ18 090731	253LQ25 092724		
FERME			353TQ25 092609			353LQ18 090933	353LQ25 093104		
AUF			172TQ25 090732			172LQ18 090206	172LQ25 091538		
UP			272TQ25 091124			272LQ18 090768	272LQ25 092778		
MONTEE			372TQ25 092711			372LQ18 090949	372LQ25 093139		
AB			173TQ25 090822			173LQ18 090247	173LQ25 091565		
DOWN			273TQ25 091152			273LQ18 090796	273LQ25 092794		
DESCENTE			373TQ25 092775			373LQ18 090983	373LQ25 093163		
RESET			287TQ25 091185			287LQ18 090820	287LQ25 092844		
VOR			190TQ25 090852			190LQ18 090291	190LQ25 091599		
ZURÜCK			191TQ25 090866			191LQ18 090496	191LQ25 091620		





		Insert plates for Q25T...-X label mount	Q25T... label mounts with insert plate		
Inscription	Colour, symbol	Part no. Article no.	Price see price list	Part no. Article no.	Price see price list
Insert plates, label mounts					
		01SQ25 037986		Q25TS-01 046184	
		02SQ25 038074		Q25TS-02 046185	
		05SQ25 063201		Q25TGE-05 063259	
AUS		117SQ25 038509		Q25TS-117 046194	
OFF		217SQ25 038728		Q25TS-217 046195	
EIN		121SQ25 038579		Q25TS-121 046196	
ON		221SQ25 038765		Q25TS-221 046197	
STOP		110SQ25 038507		Q25TS-110 046190	
ARRET		310SQ25 038768		Q25TS-310 046191	
START		111SQ25 038508		Q25TS-111 046192	
MARCHE		311SQ25 038769		Q25TS-311 046193	
Störung		150SQ25 038661		Q25TS-150 046198	
FAULT		250SQ25 038766		Q25TS-250 046199	
DÉFAUT		386SQ25 072302		Q25TS-386 072306	
Betrieb		183SQ25 038727		Q25TS-183 046201	
RUN		283SQ25 038767		Q25TS-283 046203	
EN SERVICE		383SQ25 038771		Q25TS-383 046204	
HAND 0 AUTO		197SQ25 072301		Q25TS-197 072305	
MAN. 0 AUTO		397SQ25 072303		Q25TS-397 072307	
NOT-AUS		199SQ25 063200		Q25TGE-199 063260	
EMERGENCY STOP		299SQ25 063199		Q25TGE-299 063261	
ARRET D'URGENCE		399SQ25 048638		Q25TGE-399 063262	
		10SQ25 038268		Q25TS-10 046186	
		11SQ25 038269		Q25TS-11 046187	
		32SQ25 038270		Q25TS-32 046188	
		90SQ25 038271		Q25TS-90 046189	
		93SQ25 072300		Q25TS-93 072304	

20 off	Blank, black, can be engraved
	Blank, aluminium-coloured, can be engraved
	Blank, yellow, not for engraving

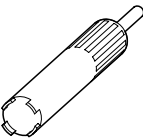
	Colour		Part no. Article no.	Price see price list	Std. pack
Surface mounting enclosure, IP65¹⁾ For conventional wiring or for mounting ILP1 circuit-boards with plastic cover fixing screws Enclosure base: black (RAL 9005) 8 mounting locations Knockout cable entries Floor: 4 × M20 Sides: 7 × M20					
		RAL 7035	I8 046299		2 off
Flush mounting plate, IP65¹⁾ For conventional wiring or for mounting ELP 1 circuit-board 8 mounting locations					
		RAL 7035	E8 054423		1 off
		RAL 9005	E8-SW 065212		1 off
Customized complete units Ordering via F0315. (*) = customer identification or stock no. as required; max. 10 characters. Extra charge for small quantities ≤ 9 off + 50%					
	—		M16-COMBINATION-* 232189		1 off
Blanking plates, IP65 For blanking off reserve locations in surface mounting enclosures or flush mounting panels, grid dimensions 25 × 37.5 mm					
		RAL 9005	Q25AS 036602		10 off
		RAL 7035	Q25AGR 048641		
			Q25AGE 048640		
Label mounts for insert plates²⁾ For additional labelling of locations in surface mounting enclosures or flush mounting panels, grid dimensions 25 × 37.5 mm					
		RAL 9005	Q25TS-X 036601		20 off
		RAL 7035	Q25TGR-X 063257		
			Q25TGE-X 063258		

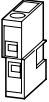
Notes

- ¹⁾ Unused locations must be closed off with blanking plates.
 Each used mounting location must be fitted with a label mount.
²⁾ Suitable insert plates → 2/54





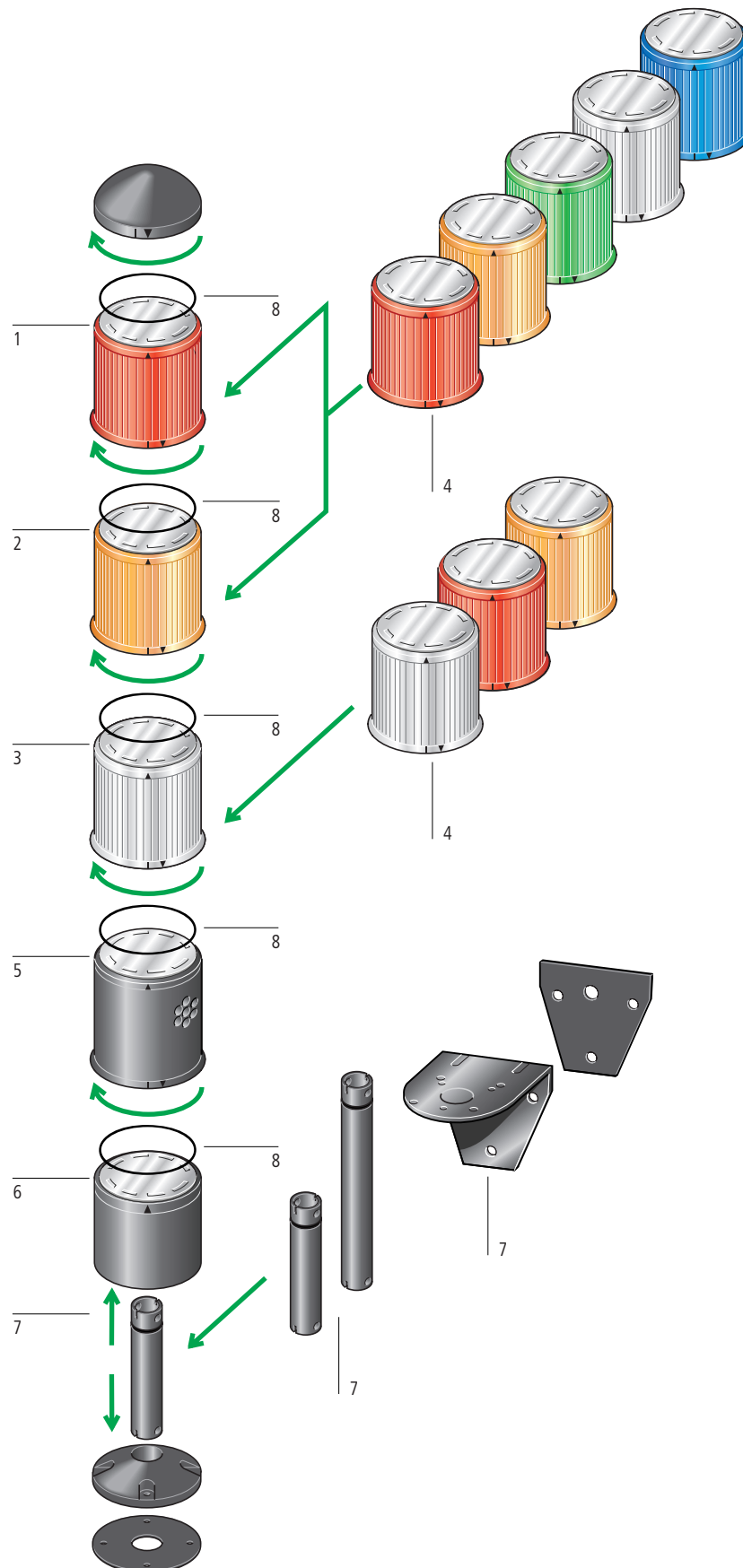
Type	Lifespan to EN 60064 at $t_a = +25\text{ }^{\circ}\text{C}$	Colour	Part no. Article no.	Price see price list	Std. pack
$t_{\text{mean}} \text{ (AC)}$ h					
Filament bulbs W 2 × 4.6 d					
	6 V/1.0 W	10000	—	WBGL6 090223	50 off
	12 V/1.0 W	15000	—	WBGL12 089968	50 off
	24 – 28 V/1.0 W	7000	—	WBGL24 089247	100 off
Multiple LEDs W 2 × 4.6 d					
	6 V/45 mA	60000		WBLED-GE6 055711	10 off
				WBLED-GN6 055712	
				WBLED-RT6 055713	
	12 V/24 mA			WBLED-GE12 055714	
				WBLED-GN12 055715	
				WBLED-RT12 055716	
Single-chip LED W 2 × 4.6 d					
Positive pole to X1 Integral suppressor circuit up to 1000 V					
	18 – 30 V DC/7 – 12.5 mA	100000		LEDWB-Y 208724	10 off
				LEDWB-G 208725	
				LEDWB-R 208726	
				LEDWB-W 208728	
				LEDWB-B 208727	
Combination box spanner					
For lock nuts, with bulb extractor					
	—	—	—	R16-MS 090297	10 off
Insulated ferrule					
For 2.8 × 0.8 mm fast-on connectors, can be push-fitted from the front $U_e > 50\text{ V AC}$, $U_e > 120\text{ V DC}$					
	—	—	—	ISH2,8 090267	100 off
Fast-on connector					
2.8 × 0.8 mm for conductor cross-sections 0.5 – 1 mm ²					
	—	—	—	LT306.022.3 058863	100 off
Blanking plugs, IP65					
Degree of protection IP65 For blanking off reserve locations					
	For grid spacing 18 × 18 mm	—		Q18BS 037985	10 off
	For grid spacing 25 × 25 mm	—		Q25BS 036976	10 off
Anti-rotation feature					
Guard ring as anti-rotation feature for all RMQ16-actuators					
	—	—	—	VS 046301	50 off

	For use with	Colour	Part no. Article no.	Price see price list	Std. pack
IP20, screw adapter					
	Cable cross-sections 1 × 1.5 mm ² , 2 × 0.75 mm ²				
	N/C contacts		SRA01 028101		20 off
	N/O contacts		SRA10 028100		
	Lamp socket		SRAL 028099		
Individual keys					
	Standard lock mechanism black. Each colour corresponds to a different lock mechanism				
			ES16 065190		10 off
			ES16-GN 030742		5 off
			ES16-RT 030741		
			ES16-WS 030743		
			ES16-BL 030744		
Transparent insert plates					
for better light diffusion					
	For grid dimension 18 × 18 mm	–	01LQ18 090231		20 off
	For grid dimension 25 × 25 mm	–	01LQ25 093180		20 off
Lenses for illuminated pushbuttons					
With inscription to order via Labeleditor → Note					
	For grid dimension 18 × 18 mm	–	XQ18LT-**-* 285288		1 off
	For grid dimension 25 × 25 mm	–	XQ25LT-**-* 285289		1 off
Lenses for indicator lights, flush					
With inscription to order via Labeleditor → Note					
	For grid dimension 18 × 18 mm	–	XQ18LF-**-* 285310		1 off
	For grid dimension 25 × 25 mm	–	XQ25LF-**-* 285311		1 off

Notes

1) The part number XQ...-**-* must be supplemented when ordering:
1st wildcard (*) ≙ colour, e.g.: -R, -G, -B, -W, -Y, -S
2nd wildcard (*) ≙ File name generated by Labeleditor → Engineering





http://catalog.moeller.net

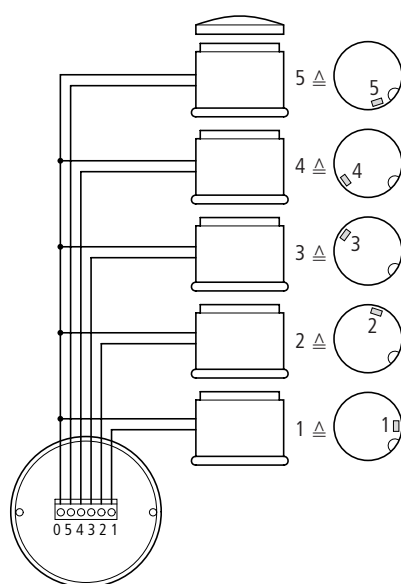
Moeller HPL0211-2007/2008

xCommand

Continuous light 1	Caps 4	Accessories 7
Easy to assemble with bayonet fitting	Colour: red, yellow, green, white, blue	Spacer available in four lengths
Modules can be arranged in any order		Filament bulbs, LEDs
	Fresnel grooves ensure even light distribution	90° wall mounting bracket with market-standard four-hole fixing
Degree of protection IP54		→ page 2/62
Up to five levels can be actuated independently	Acoustic indicator 5	
Operating mode: 100 % DF	Easy to assemble with bayonet fitting	Gaskets 8
Without light elements	Modules can be arranged in any order	For increasing the degree of protection to IP65
→ page 2/60		→ page 2/62
Flashing light 2		
Easy to assemble with bayonet fitting	Degree of protection IP20	
Modules can be arranged in any order	Operating mode: 100 % DF	
Degree of protection IP54	Continuous or pulsed tone	
Up to five levels can be actuated independently	Sound pressure: about 90 dB at 60 cm	
Operating mode: 100 % DF		
With filament bulb	Frequency: 2750 Hz	
Flashing frequency: approx. 1 Hz	→ page 2/61	
→ page 2/61		
Strobe light 3	Base module 6	
Easy to assemble with bayonet fitting	Easy to assemble with bayonet fitting	
Modules can be arranged in any order	Degree of protection IP54	
Degree of protection IP54	For floor mounting or in tubular column	
Up to five levels can be actuated independently	Terminal capacity 6 × 1.5 mm ²	
Operating mode: 100 % DF	With top cover	
Flash power 1 Ws	→ page 2/60	
Flashing frequency: approx. 1 Hz		
→ page 2/61		

Product feature of SL

- Individual programming by jumper: max. 5 modules and base module
- Customised combinations → page 2/60



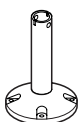


	Rated operational voltage U_e	Number of modules	Colour	Part no. Article no.	Price see price list	Std. pack
	V	Quantity				
IP54 complete units						
Basic module with stand and 100 mm spacer including filament bulb Continuous light						
	24 V AC/DC	3		SL-100-L-RYG/24 205352		1 off
	24 V AC/DC	2		SL-100-L-RG/24 205354		1 off
Customized complete units						
To order use form FO315, → Electronic Catalogue: RMQ16 → Product profile → Product information (*) = Freely selectable customer identification or stock no.;						
-				SL-COMBINATION-* 229655		1 off

	Colour	Part no. Article no.	Price see price list	Std. pack	Notes
Base module					
Black, with top cover					
	With screw terminals		SL-B 205311	1 off	Cage Clamp is a registered trademark of Wago Contact Technik GmbH, Minden, Germany Base module (printed circuit board in base enclosure with 3 outputs): • Power supply completely from AS-Interface (max. 250 mA) with 2-way screw terminal • Combination of 3 surface mounting modules with various functions (continuous-, flashing-, strobe light and acoustic indicator) • Status LEDs • Order surface mounting modules separately
	With Cage Clamp		SL-CB 218483		
	with AS-Interface connection		SL-B-ASI 222174		
					
Continuous light module					
Without filament bulbs					
		SL-L-W 205312		1 off	
		SL-L-R 205313			
		SL-L-G 205314			
		SL-L-Y 205315			
		SL-L-B 205316			

	Rated operational voltage	Colour	Part no. Article no.	Price see price list	Std. pack	
	U_e					
	V					
Flashing light module						
Without filament bulb, $f \approx 1$ Hz						
	24 V AC/DC (+10 %/-15 %)		SL-BL24-W 205317		1 off	
			SL-BL24-R 205318			
			SL-BL24-G 205319			
			SL-BL24-Y 205320			
			SL-BL24-B 205321			
	110 ... 130 V AC		SL-BL130-W 205322			
			SL-BL130-R 205323			
			SL-BL130-G 205324			
			SL-BL130-Y 205325			
			SL-BL130-B 205326			
	230 V AC		SL-BL230-W 205327			
			SL-BL230-R 205328			
			SL-BL230-G 205329			
			SL-BL230-Y 205330			
			SL-BL230-B 205331			
Acoustic indicator module, IP20						
	Continuous tone $f = 2750$ Hz	12 ... 36 V AC/DC 8 ... 12 mA		SL-A24 205341	1 off	
	Continuous tone $f = 2750$ Hz	110 ... 230 V AC/DC 4 ... 8 mA		SL-A110-230 205342		
	Pulsed tone: 5 Hz with $f = 2750$ Hz	12 ... 36 V AC/DC 8 ... 12 mA		SL-AP24 205343		
	Pulsed tone: 5 Hz with $f = 2750$ Hz	110 ... 230 V AC/DC 4 ... 8 mA		SL-AP110-230 205344		
Strobe light module						
With flash tube, 1 Ws, $f \approx 1$ Hz						
	24 V AC/DC (+10 ... -15 %) I_{emax} : 190 mA		SL-FL24-W 205332		1 off	
			SL-FL24-R 205333			
			SL-FL24-Y 205334			
	110 ... 130 V AC I_{emax} : 31 mA		SL-FL130-W 205335			
			SL-FL130-R 205336			
			SL-FL130-Y 205337			
	230 V AC I_{emax} : 28 mA		SL-FL230-W 205338			
			SL-FL230-R 205339			
			SL-FL230-Y 205340			



		Lifespan to EN 60064 at $t_a = +25\text{ }^{\circ}\text{C}$ t_{mean} (AC)	Rated operational voltage U_e	Colour	Part no. Article no.	Price see price list	Std. pack
		h	V				
Accessories							
Stand with spacer							
	100 mm, black plastic	—		—	SL-F100 205345		1 off
	100 mm, metal	—		—	SL-F100M 265359		
	250 mm, black plastic	—		—	SL-F250 205346		
	250 mm, metal	—		—	SL-F250M 268925		
	400 mm, metal	—		—	SL-F400 215275		
	800 mm, metal	—		—	SL-F800 215276		
Fixing bracket 90° for wall mounting							
	Metal	—		—	SL-FW 205347		1 off
Filament bulb BA 15d, 5 ... 7 W							
		2000	24 V	—	SL-L24 205348		1 off
		5000	110 ... 130 V	—	SL-L130 205349		1 off
		5000	200 ... 260 V	—	SL-L230 205350		1 off
Multiple LED BA 15d, integral suppressor circuit up to 1500 V							
		100000	18 ... 30 V AC/DC 13 ... 50 mA		SL-LED-W 215278		1 off
					SL-LED-R 215279		
					SL-LED-G 215280		
					SL-LED-Y 215281		
					SL-LED-B 215282		
					SL-LED230-W 285532		
		110 ... 230 V AC 9 ... 17 mA			SL-LED230-R 285533		
					SL-LED230-G 285534		
					SL-LED230-Y 285535		
					SL-LED230-B 285536		
Gasket set To increase the degree of protection to IP65 (not applicable to acoustic indicator) For 3 modules $\triangle$ 4 off							
	—			—	SL-IP65 215277		1 off

			Contact elements	LED elements	Illuminated pushbuttons, pushbutton actuators and mushroom actuators with spring-return	Double actuators	Selector switch actuators, illuminated selector switch actuators
General							
Standards			IEC/EN 60947 VDE 0660				
Lifespan, mechanical	Operations	$\times 10^6$	> 5	–	> 5	> 0.2	> 0.1
Operating frequency	Operations/h		≤ 3600	–	≤ 3600	≤ 3600	≤ 2000
Actuating force		n	≤ 5	–	≤ 5	≤ 5	–
Operating torque (screw terminals)		Nm	≤ 0.8	–	–	–	≤ 0.3
Protection type			IP20	IP20	IP67, IP69K	IP66	IP66
Climatic proofing			Damp heat, constant, according to IEC 60068-2-78 Damp heat, cyclical to IEC 60068-2-30				
Ambient temperature							
Open		°C	-25/70	-25/70	-25/70	-25/70	-25/70
Mounting position			As required				
Mechanical shock resistance to IEC 60068-2-27		g	> 30	> 30	> 30	> 30	> 30
Shock duration 11 ms, half-sinusoidal							
Terminal capacities							
Solid		mm ²	0,75 – 2,5	0,75 – 2,5	–	–	–
Stranded		mm ²	0,5 – 2,5	0,5 – 2,5	–	–	–
Contacts							
Rated impulse withstand voltage	U_{imp}	V AC	6000	6000	–	–	–
Rated insulation voltage	U_i	V	500	500	–	–	–
Overvoltage category/pollution degree			III / 3	III / 3	–	–	–
Control circuit reliability							
at 24 V DC/5 mA	H_F	Fault probability	< 10 ⁻⁷ , < 1 fault in 10 ⁷ operations	–	–	–	–
at 5 V DC/1 mA	H_F	Fault probability	< 5 $\times 10^{-6}$, < 1 fault in 5 $\times 10^6$ operations	–	–	–	–
Max. short-circuit protective device							
Fuseless		Type	PKZM0–10/FAZ-B6/1	–	–	–	–
Fuse	gG/gL	A	10	–	–	–	–
Switching capacity							
Rated operational current							
AC–15							
115 V	I_e	A	4	–	–	–	–
230 V	I_e	A	4	–	–	–	–
400 V	I_e	A	2	–	–	–	–
500 V	I_e	A	2	–	–	–	–
DC-13							
24 V	I_e	A	3	–	–	–	–
42 V	I_e	A	1.7	–	–	–	–
60 V	I_e	A	1.2	–	–	–	–
110 V	I_e	A	0.8	–	–	–	–
220 V	I_e	A	0.3	–	–	–	–
Lifespan, electrical							
AC–15							
230 V/0.5 A	Operations	$\times 10^6$	1.6	–	–	–	–
230 V/1.0 A	Operations	$\times 10^6$	1	–	–	–	–
230 V/3.0 A	Operations	$\times 10^6$	0.7	–	–	–	–
DV-13							
12 V/2.8 A	Operations	$\times 10^6$	1.2	–	–	–	–

Notes
¹⁾ > 200 V AC/60 Hz:




			Key-operated actuators	Indicator light Acoustic indicator compact Indicator light compact Potentiometer	Illuminated push-button actuators Pushbutton actuators Stay-put mushroom actuators	Emergency-Stop actuators
General						
Standards			IEC/EN 60947 VDE 0660			
Lifespan, mechanical	Operations	$\times 10^6$	> 0.1	–	> 1	> 0.1
Operating frequency	Operations/h		≤ 100	–	≤ 1800	≤ 600
Actuating force		n	–	–	≤ 5	≤ 50
Operating torque		Nm	≤ 0.5	–	–	–
Protection type			IP66	(Compact) indicator lights: IP67, IP69K Compact acoustic indicators: IP40 Potentiometers: 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			As required			
Mechanical shock resistance to IEC 60068-2-27 (half-sinusoidal shock, duration 11 ms)		g	> 30	> 30	> 30	> 50
Terminal capacities						
Solid		mm ²	–	0,5 – 1,5	–	–
Stranded		mm ²	–	0,5 – 1,5	–	–
Contacts						
Rated impulse withstand voltage	U_{imp}	V AC	–	4000	–	–
Rated insulation voltage	U_i	V	–	2500	–	–
Overvoltage category/pollution degree			–	III/3	–	–

			FAK-... foot and palm switches Spring-return	Stay-put	FAK-R/V/KC11A/I Stay-put
General					
Standards			IEC/EN 60947 VDE 0660		
Lifespan, mechanical	Operations	$\times 10^6$	> 1	> 0.1	> 0.1
Operating frequency	Operations/h		≤ 3600	≤ 600	≤ 600
Actuating force		n	20 – 40	40 – 60	15 – 25
Operating torque		Nm	–	–	–
Degree of protection, 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			As required	As required	As required
Mechanical shock resistance to IEC 60068-2-27 Shock duration 11 ms, half-sinusoidal		g	> 15	> 15	> 15

		AS-Interface connection for RMQ-Titan		Adapter element for RMQ-Titan	
		RMQ-M1C-ASI	RMQ-M2C-ASI	M22-ASI	M22-ASI-C
General					
Standards		EN 50081-1 EN 50082-1	EN 50081-1 EN 50082-1	IEC/EN 60947, DIN EN 50295	IEC/EN 60947, DIN EN 50295
Radio interference suppression		EN 55011, EN 55022	EN 55011, EN 55022	EN 55011, EN 55022	EN 55011, EN 55022
Limit value class		A	B	–	–
Protection type		IP20	IP00	IP20	IP00
Climatic proofing		Damp heat, constant, to IEC 60068-2-78, cyclical, to IEC 60068-2-30			
Ambient temperature					
Open	°C	-25...55	-25...60	-25...55	-25...55
Enclosed	°C		-25...40		
Shock resistance Shock duration 11 ms	g	> 30	> 30	> 30	> 30
Vibration to IEC 60068-2-27 (amplitude 1 mm)	Hz	10 – 55	10 – 55		
Dimensions	mm	92 × 46 × 30	104 × 46 × 17		
Weight	kg	0.1	0.1	–	–
Fixing		Front fixing for RMQ-Titan	Front fixing RMQ-Titan, front/base fixing RMQ 16	Front fixing for RMQ-Titan	Base fixing for RMQ-Titan
Mounting position		As required	As required	As required	As required
Power supply					
Rated voltage to AS-Interface Specification	V DC	26.5 – 31.6	26.5 – 31.6	26.5 – 31.6	26.5 – 31.6
Connection technique		–	–	Yellow plug-in terminal as insulation piercing terminal	2 cables on board
Power supply		Completely from the AS-Interface cable			
Addressing		Via connection to AS-Interface cable			
Total power consumption of the AS-Interface	mA	–	–	≤ 40	≤ 40
AS-Interface		Protected against polarity reversal	Protected against polarity reversal	–	–
Rated operational current at full load	mA	120	230	–	–
Rated operational current when idle (no I, O set)	mA	normally 30	normally 30	–	–
Status LEDs		AS-Interface voltage: green LED		POWER AS-Interface cable: green LED on the rear side of the element ERROR AS-Interface, AS-Interface Master failure: red LED on the rear side of the element	POWER AS-Interface cable: green LED on the board ERROR AS-Interface, AS-Interface Master failure: red LED on the board
Inputs					
Inputs, protected against short-circuit	Number	4 (1 internal + 2 external)	4	2 (normally 22 V/5 mA)	2 (normally 22 V/5 mA)
Voltage range	V DC	24 – 30	20 – 30		
Rated current per input	mA	normally 3.5	normally 5	–	–
High signal level	V	≥ 15	≥ 10	–	–
Low signal	mA	–	≤ 1.5	–	–
Length of connecting cables	cm	≤ 200	≤ 200	–	–
Outputs					
Outputs, protected against short-circuit	Number	4 (1 internal + 2 external)	4	1 (normally 19 V/8 mA)	1 (normally 19 V/8 mA)
Voltage range	V DC	24 V DC (+10/–15%)	24 V DC (+10/–15%)	–	–
Max. current carrying capacity					
All outputs		–	200	–	–
Σ 3 external outputs		60	–	–	–
Length of connecting cables	cm	≤ 200	≤ 200	–	–
Profile		S-7.0	S-7.0	S-3.A.E	S-3.A.E
Specification		2.0	2.0	2.1	2.1
Addresses	Number	31	31	62	62





		M22-ASI-S	M22-ASI-CS
Emergency-Stop circuits			
Connection of the AS-Interface line		Yellow plug terminal with insulation piercing	2 cables on the circuit board
Power supply		Complete from AS-Interface, cable 26.5 – 31.6 V DC	Complete from 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	A	45 mA	45 mA
Ambient temperature	°C	-25 ... +55°	-25 ... +55°
Shock resistance		30 g/11 ms as per IEC 60068-2-27	30 g/11 ms as per IEC 60068-2-27
Protection type		IP 20	IP00
Climatic proofing		Damp heat, constant, to IEC 60068-2-78, cyclical, to IEC 60068-2-30	Damp heat, constant, to IEC 60068-2-78, cyclical, to IEC 60068-2-30
Mounting position		As required	As required
Standards		EN 50178 EN 50 295	EN 50178 EN 50 295
Inputs		2-channel input (22 V/5 mA) (moduled by code sequence) (2 break contact sets RMQ-Titan M22-K01)	2-channel input (22 V/5 mA) (moduled by code sequence) (2 break contact sets RMQ-Titan M22-K01)
Outputs		1 output, typically 19 V/8 mA, short-circuit proof	1 output, typically 19 V/8 mA, short-circuit proof
Status displays			
Power, AS-Interface cable		Green LED on the back	Green LED on the back
AS-Interface error, AS-Interface master failure		Red LED on the back	Red LED on the back
Profile		S-7.B.E	S-7.B.E

			M22-ESA	M22S-ESA	M22-ESA-1	M22S-ESA-1	M22-ESA-R
General							
Dimensions							
Front part		W × H × D	65 × 50 × 16 mm				
Base unit		B × H × D	76 × 60 × 35 mm				
Mounting depth:		mm	45	45	45	45	45
Weight		kg	0.13	0.13	0.13	0.13	0.13
Mounting			2 x 22.5 mm, display is fastened with two fixing screws				
Environmental conditions							
Operating ambient temperature		°C	0 – 60	0 – 60	0 – 60	0 – 60	0 – 60
Storage		°C	–20...+70	–20...+70	–20...+70	–20...+70	–20...+70
Relative humidity, non-condensing (IEC/EN 60068-2-30)		%	5...95	5...95	5...95	5...95	5...95
Degree of protection IEC/EN 60529			Front part: IP65, base unit: IP20				
Power supply							
Rated operational voltage	U_e	V	–	–	–	–	24 DC (+10 %/–15 %)
Residual ripple		%	–	–	–	–	≤ 5
Rated operational current	I_e	A	–	–	–	–	Max. 0.2
Heat dissipation		W	–	–	–	–	5 W at 24 V
Relay outputs							
Number			–	–	–	–	1
Contact type art			–	–	–	–	Changeover contact
Rated device current		A	–	–	–	–	3
Rated voltage		V AC	–	–	–	–	250
Switching capacity			–	–	–	–	AC-15, $I_e = 3$ A, $U_e = 250$ V AC
Insulation resistance							
Clearance in air and creepage distances			EN 50178, UL 508, CSA 22.2 No 142				
Sensor							
Type			Thermal line sensor				–
Recognition			Finger Minutiae (finger lines, ends, branches)				–
Number			–	–	–	–	100
Output signal on positive detection			–	–	–	–	Changeover contact switches between 1 – 10 sec. depending on setting.

Notes

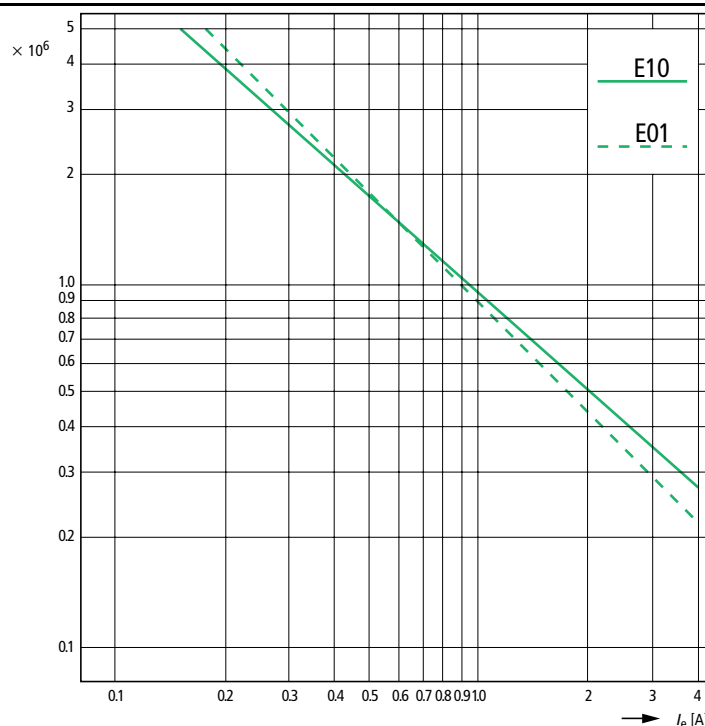
The function of the sensor can be influenced by humidity and dirt.

			Contact elements	Illuminated pushbuttons (stay-put)	Illuminated selector switch actuators	Indicator lights
General						
Standards			IEC/EN 60947			
Lifespan, mechanical	Operations	$\times 10^6$	> 100	> 30	> 3	–
Operating frequency	Operations/h		≤ 3600	≤ 1800	≤ 1800	–
Actuating force		n	≤ 3	≤ 4	–	–
Operating torque		Nm	–	–	≤ 0.2	–
Degree of protection, IEC/EN 60529			IP20 with ISH2,8	IP65	IP65	IP 65
Climatic proofing			Damp heat, constant, to IEC 60068-2-78, cyclical, to IEC 60068-2-30			
Ambient temperature						
Open		°C	–25...60	–25...60	–25...60	–25...60
Enclosed		°C	–25...40	–25...40	–25...40	–25...40
Mounting position			As required	As required	As required	As required
Mechanical shock resistance to IEC 60068-2-27			> 40	> 40	> 40	> 40
Shock duration 11 ms, half-sinusoidal						
Terminal capacities			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			
Fast-on connectors			2.8 × 0.8 mm to DIN 46247 and IEC 60760			
Contacts						
Rated impulse withstand voltage	U_{imp}	V AC	4000	800	800	800
Rated insulation voltage	U_i	V	250	250	250	250
Overvoltage category/pollution degree			III/3	III/3	III/3	III/3
Rated operational voltage	U_e	V AC	250	24	24	24
Control circuit reliability						
at 24 V DC/5 mA	H_F	Fault probability	< 10^{-7} , < 1 fault in 10^7 operations			–
at 5 V DC/1 mA	H_F	Fault probability	< 5×10^{-6} , < 1 fault in 5×10^6 operations			–
Use of insulated ferrule ISH 2,8			>24 V AC/DC recommended >50 V AC or 120 V DC is mandatory, even on unused blade terminals			
Max. short-circuit protective device						
Fuseless		Type	FAZ-B6/1	–	–	–
Fuse	gG/gL	A	10	–	–	–
Switching capacity						
Rated operational current						
AC–15						
24 V	I_e	A	4	–	–	–
48 V	I_e	A	4	–	–	–
110 V	I_e	A	4	–	–	–
230 V	I_e	A	4	–	–	–
DC-13						
24 V	I_e	A	3	–	–	–
42 V	I_e	A	1	–	–	–
60 V	I_e	A	0.8	–	–	–
110 V	I_e	A	0.5	–	–	–
220 V	I_e	A	0.2	–	–	–





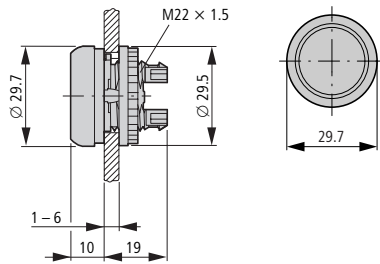
			Push-button actuators (stay-put)	Selector switch actuators	Key-operated actuators	Emergency-Stop actuators	Emergency-Stop actuators, illuminated
General							
Standards			IEC/EN 60947, VDE 0660				
Lifespan, mechanical	Operations	$\times 10^6$	> 3	> 3	> 3	> 0.1	> 0.1
Operating frequency	Operations/h		≤ 1800	≤ 1800	≤ 1800	≤ 600	≤ 600
Actuating force		n	≤ 4	–	–	≤ 25	≤ 25
Operating torque		Nm	–	≤ 0.2	≤ 0.4	–	–
Degree of protection, IEC/EN 60529			IP65	IP65	IP65	IP65	IP65
Climatic proofing			Damp heat, constant, to IEC 60068-2-78; Damp heat, cyclical, to IEC 60068-2-30				
Ambient temperature	Open	°C	–25...60	–25...60	–25...60	–25...60	–25...60
	Enclosed	°C	–25...40	–25...40	–25...40	–25...40	–25...40
Mounting position			As required	As required	As required	As required	As required
Mechanical shock resistance to IEC 60068-2-27			g	> 40	> 40	> 40	> 40
Shock duration 11 ms, half-sinusoidal							
Terminal capacities			mm ²	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				
Fast-on connectors			2.8×0.8 mm to DIN 46247 and IEC 60760				

Contacts

Lifespan, electrical AC-15 to IEC/EN 60947-5-1 at 230 V; I_e = rated operational current

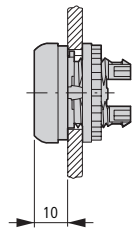
			SL signal towers				Base module for signal towers SL-B-ASI
General							
Standards			IEC/EN 60947				
Degree of protection, IEC/EN 60529			IP65 with SL-IP65 gasket, IP20 with SL-A acoustic indicator module				Screw terminal on the circuit-board through AS interface line connection
Climatic proofing			Damp heat, constant, to IEC 60068-2-78, cyclical, to IEC 60068-2-30				
Ambient temperature							
Enclosed		°C	–25...50				Status. Output Q0/function module position 1: green
Mounting position			As required				Status. Output Q1/function module position 2: green
Mechanical shock resistance to IEC 60068-2-27 g			> 15				Status. Output Q2/function module position 3: green
Shock duration 11 ms, half-sinusoidal							AS interface power line: green
Terminal capacities							AS interface error, AS interface master failure: red
Solid		mm²	0.75 – 2.5				
Stranded		mm²	0.5 – 2.5				
Contacts							
Rated impulse withstand voltage	U_{imp}	V AC	4000				
Rated insulation voltage	U_i	V	250				
Overvoltage category/pollution degree			III/3				
General							
Connection of the AS interface line							
Addressing							
Maximum total current	mA		≤ 250				
Power supply			From AS interface line only				
Ambient temperature			°C				–25...55
Status LEDs on the 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

Actuating and indicator elements

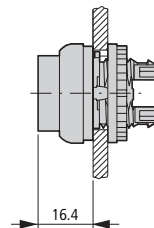


Pushbuttons RMQ-Titan

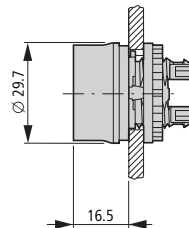
M22...-D...



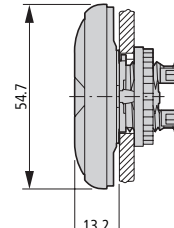
M22...-DH...



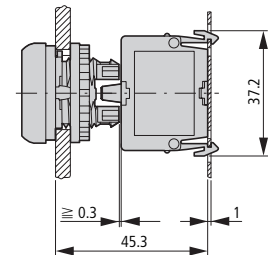
M22-DG(L)...



M22...-DD...

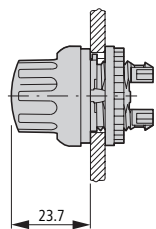


M22-D pushbuttons in base fixing

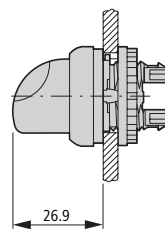


Selector switch actuators RMQ-Titan

M22-W...



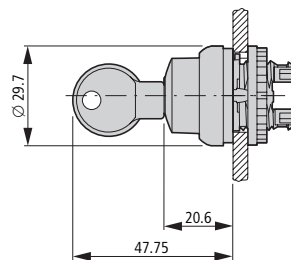
M22...-WL...



Key-operated actuators RMQ Titan Individual lock mechanism

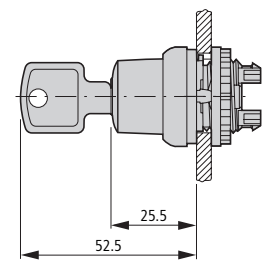
Individual lock mechanism

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



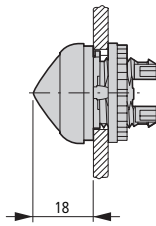
Master key systems

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

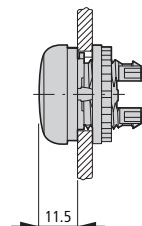


Indicator light RMQ-Titan

M22-LH-...

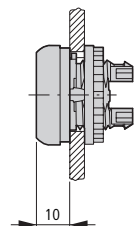


M22-L...

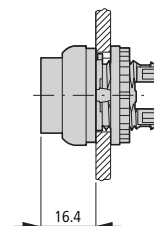


Illuminated pushbuttons RMQ-Titan

M22...-DL-...

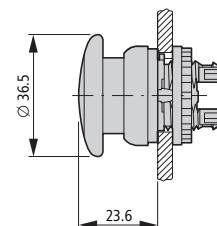


M22...-DLH...



Mushroom-headed pushbutton RMQ-Titan

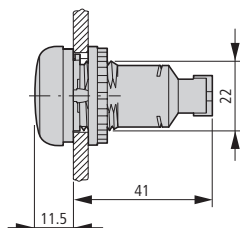
M22...-DP-...



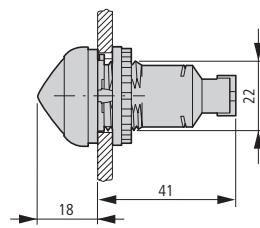
Compact indicator lamps Compact acoustic indicators

M22-LC-...

M22-AM...



M22-LCH...



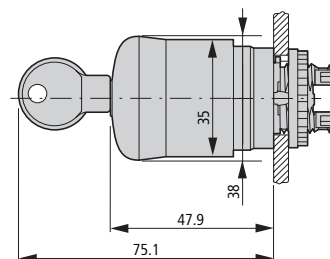
Emergency-Stop pushbuttons RMQ-Titan

M22-PV...

M22S-PV...

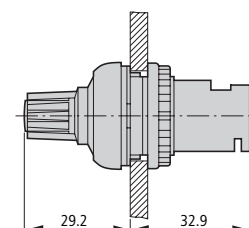
M22-PVL...

M22-PVS...



Potentiometer

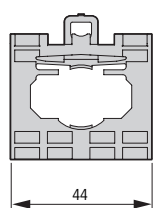
M22...-R...K



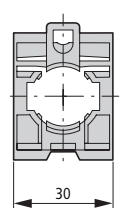
Front fixing (style: flush mounting)

Fixing adapter

M22-A...

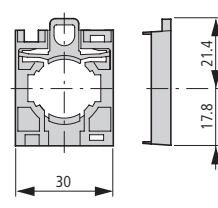


M22-A

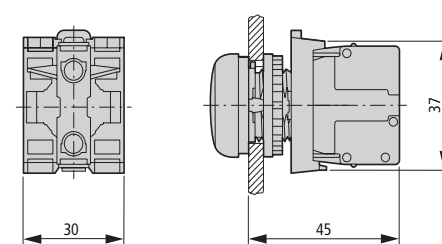


Centring adapter

M22-ZA



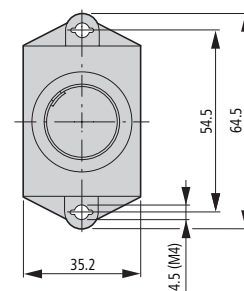
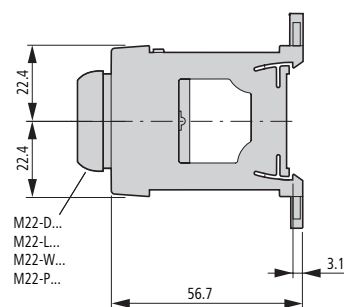
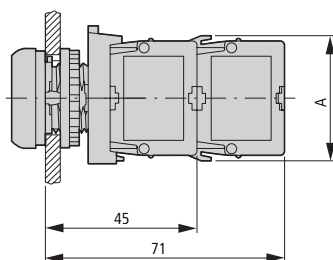
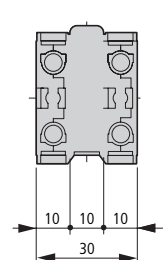
Indicator light RMQ-Titan



Pushbutton with M22-(C)K...

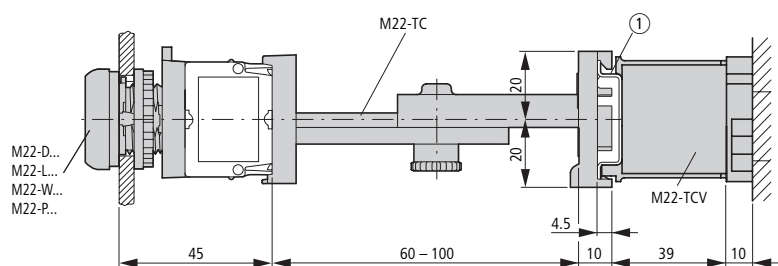
Pushbutton with M22-(C) LED... + M22-XLED...

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

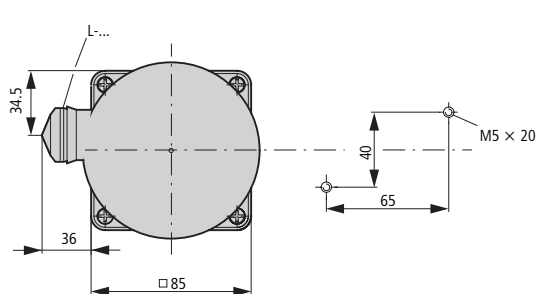
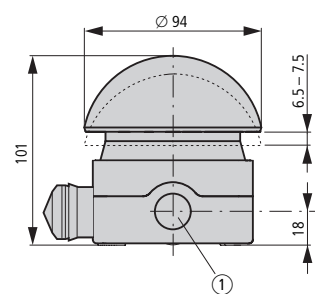
Pushbuttons and indicator lights with M22-TC telescopic clip and M22-TCV extension



① Top-hat rail to IEC/EN 60715

Foot and palm switches RMQ-Titan

FAK...


 ① 3 × M20 (Pg 13.5) lateral
 1 × M16 in bottom

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

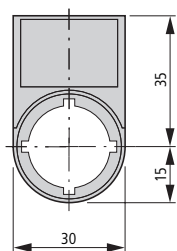
xCommand M22

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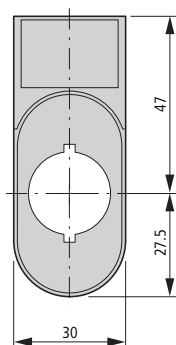
<http://catalog.moeller.net>

Additional button label mounts

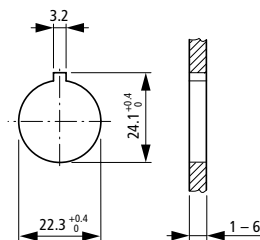
M22S-ST-...



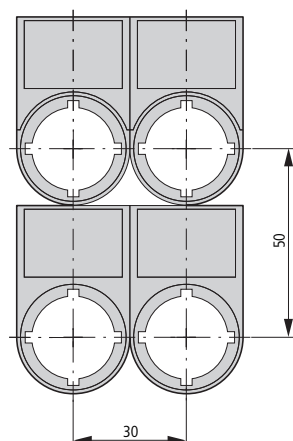
M22S-STDD-X



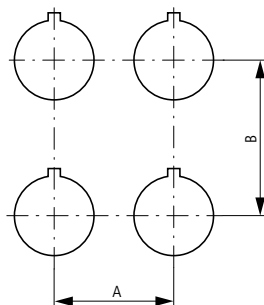
Mounting hole with lug slot



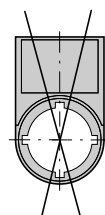
Grid dimension to IEC/EN 60947



Grid dimension for various combinations

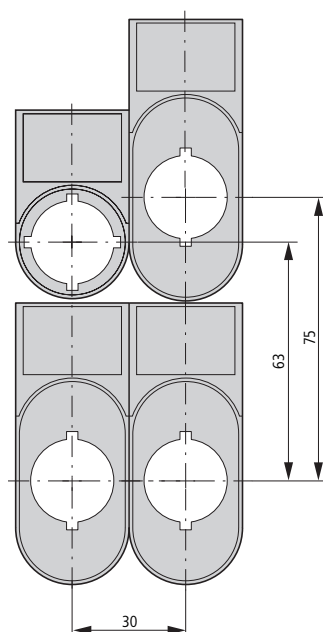


Pushbutton diaphragm cannot be combined with label mount

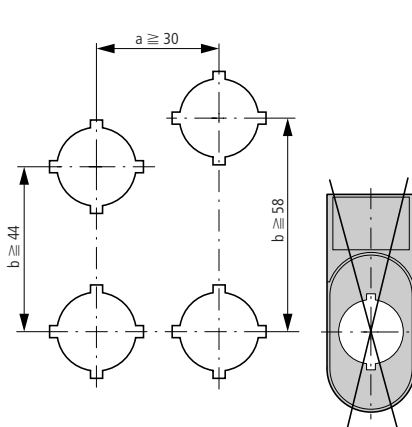


Part no.	A ≧ mm	B ≧ mm
M22(S)-... (IEC/EN 60947)	30	50
RMQ-Titan min.	30	40
M22-D... + M22-T-D	33	40
M22-D(R)P...	38	40
M22-PV...	38	40
M22-PV(L) + M22-PL-PV	48	56
M22-PV(L)(S...) + M22-D...	33	40
M22-DDL...	30	55
M22-DDL... + M22-T-DD	33	58
M22-ST...	30	50
M22-STDD...	30	75
M22-CK...	30	45
M22-CLED...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

Grid dimension for M22-DD...

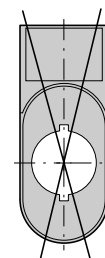


Grid dimension for M22-DDL



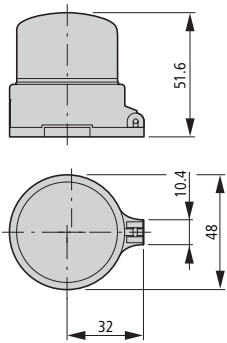
Pushbutton diaphragm M22-T-DD

Pushbutton diaphragm cannot be combined with label mount



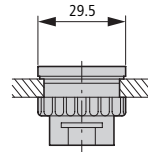
Emergency-Stop sealing cover RMQ-Titan

M22-PL-PV



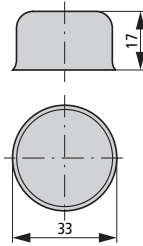
Blanking plugs RMQ-Titan

M22...B-...

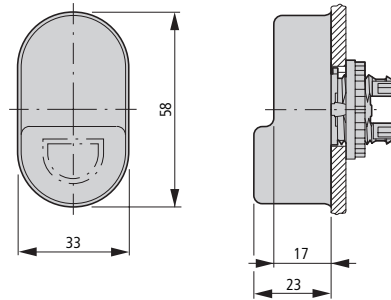


Pushbutton diaphragm RMQ-Titan

M22-T-D

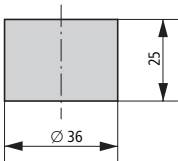


M22-T-D

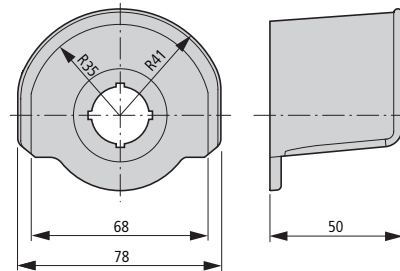


Guard ring

M22-XGWK

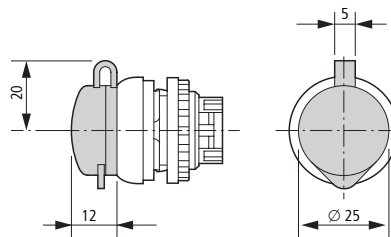


M22-XGPV



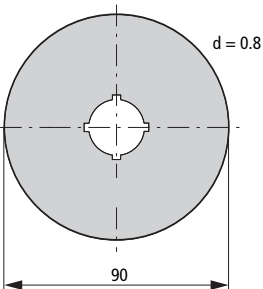
Protective membrane

M22-XWS

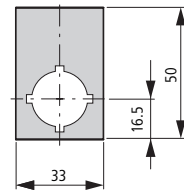


Emergency-Stop label RMQ-Titan

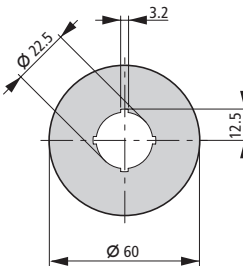
M22-XAK...



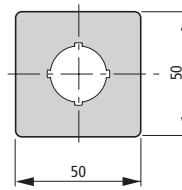
M22-X(Y)ZK...



M22-XBK-...

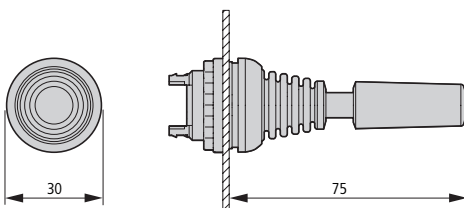


M22-XYK-...



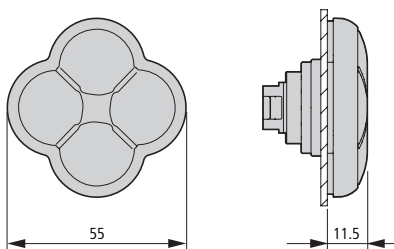
Joystick

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



4-way pushbutton

M22...-D...4-...



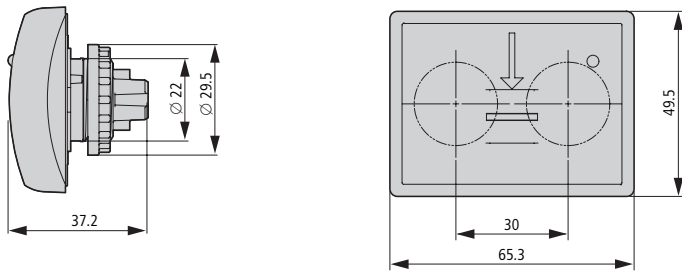
xCommand M22...-ESA

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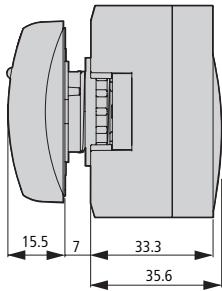
<http://catalog.moeller.net>

Finger print recognition system

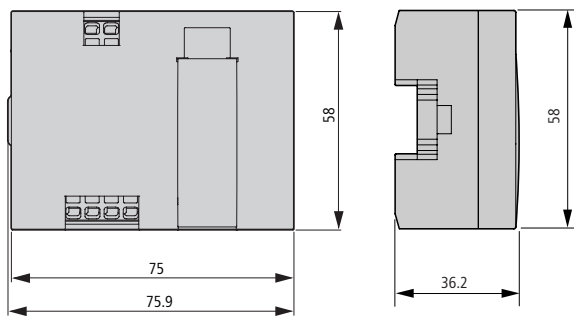
M22(S)-ESA-1



M22(S)-ESA

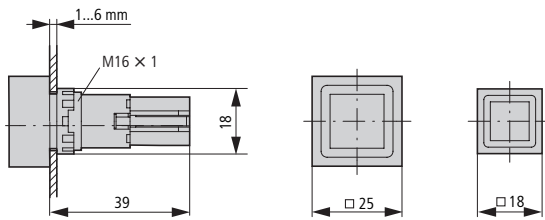


M22-ESA-R

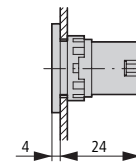


Actuating and indicator elements

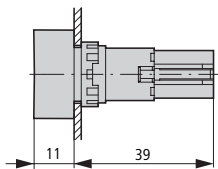
Square style



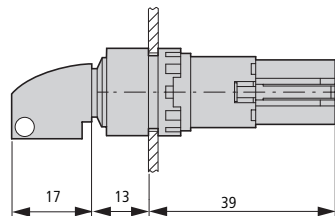
Q...BS



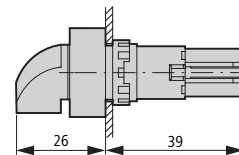
Q...D-... Q...DR-...



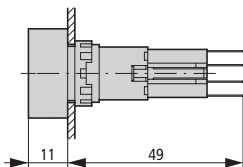
Q...S...



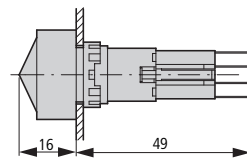
Q...WK...



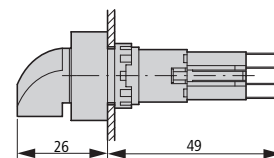
Q...LT-... Q...LTR-... Q...LF-...



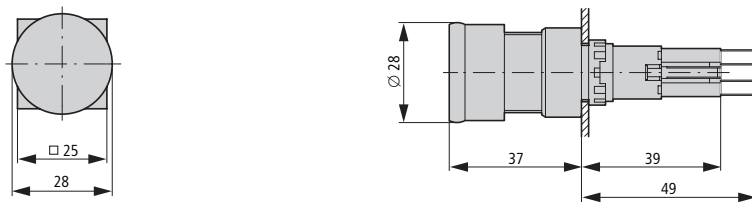
Q...LH...



Q...LWK...

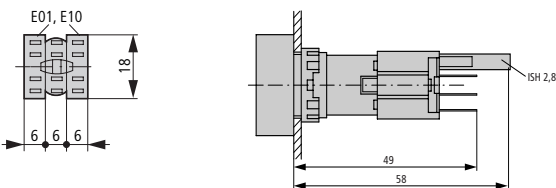


Q25PV... Q25LPV...

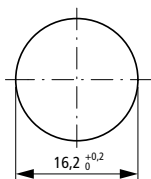


Front fixing

Q18, Q25, E89, SRA, VS, M16

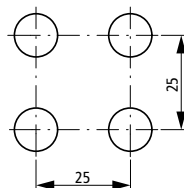


Drilling dimensions



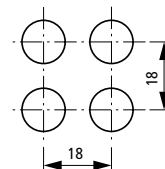
Grid dimension to IEC/EN 60947

Q25...

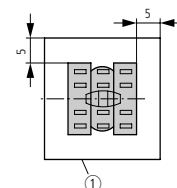


Minimum grid spacing dimension

Q18...



Mounting distance

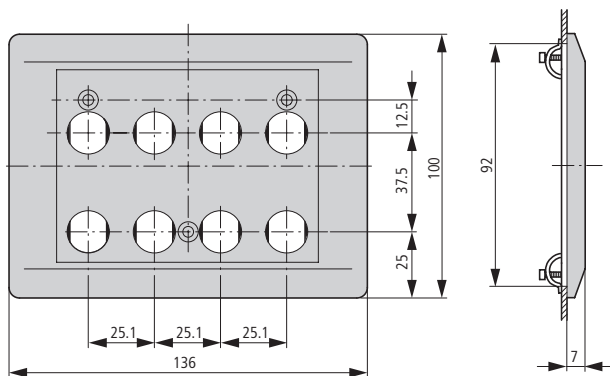


① exposed conductive part (metal)



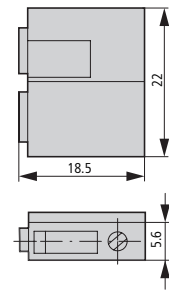
Flush mounting plate

E8...



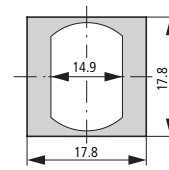
Screw adapter RMQ16

SRA...



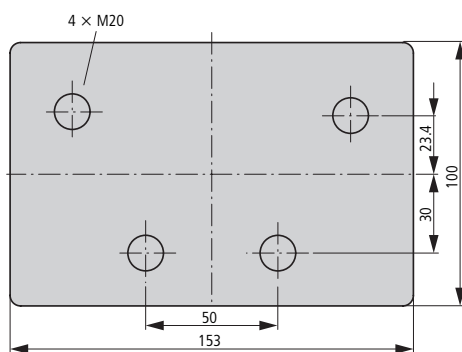
Anti-rotation feature RMQ16

VS



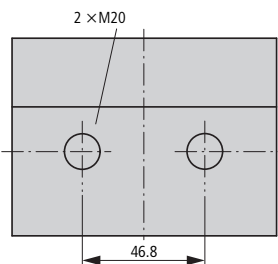
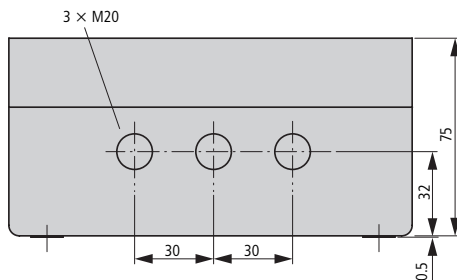
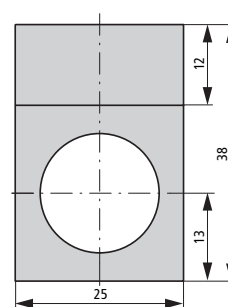
Surface mounting enclosure RMQ16

I8



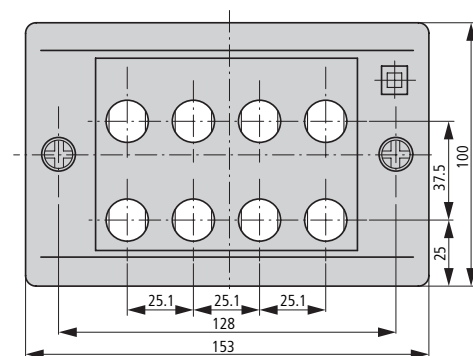
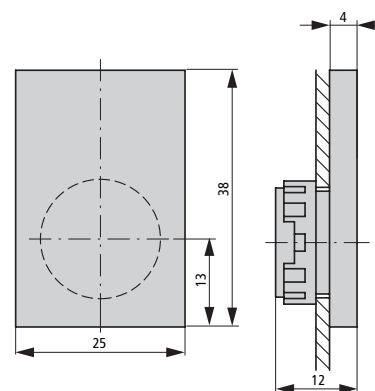
Label mounts RMQ16

Q25TS-...



Blanking plates

Q25AS

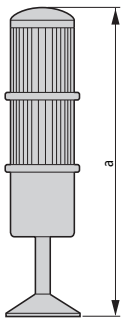


Fixing holes: 2 x Ø 4.5 mm

Distance: 128 mm

Signal towers

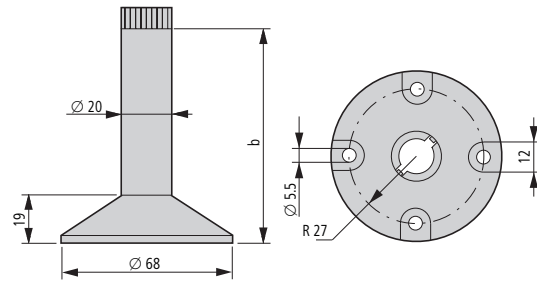
SL-100-...



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

Stand with spacer

SL...



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

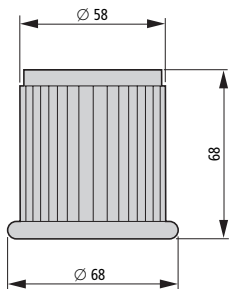
Modules

SL-L-...

SL-BL-...

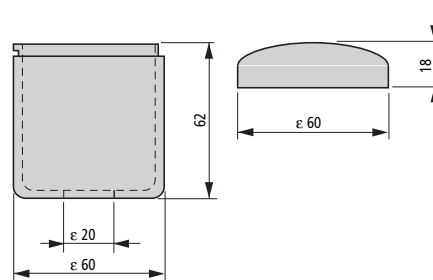
SL-A-...

SL-FL-...



Basic modules with cover

SL-(C)B-...



Fixing bracket

SL-FW

