



Selection aid Command and indication

Product Highlights



The small emergency-stop button: small device, big impact

The small emergency-stop button from the RMQ range combines functionality, safety and a unique, compact design. The small E-Stop button is an innovative control element that stands out for its compact size and novel illumination system. The innovative 360° illuminated ring ensures better detectability and thus increases the safety of machinery and systems. Thanks to extensive approvals, certificates and the modularity of the entire RMQ range, it can be used easily and flexibly in a wide range of applications.

Modular system. Highly flexible.

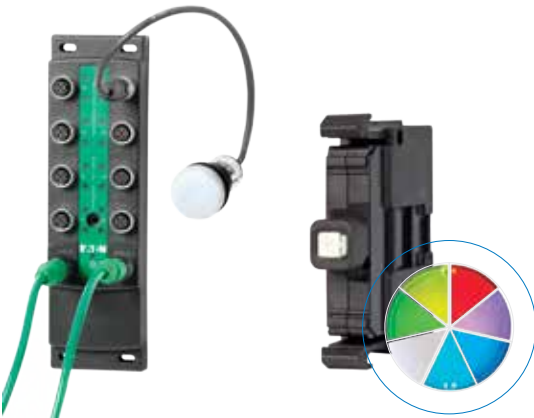
RMQ Flat Enclosure is the smallest housing device of its kind and turns safety-relevant components into stylish design elements for every machine and system. It allows for a maximum of flexibility in endless applications thanks to the flat electromechanical contact elements RMQ Flat Rear that are easily combinable with the rest of the RMQ assortment.



Rapid detection of machine states, thanks to the many different color options of the multicolor light indicator

The Multicolor M22 LED element offers a level of versatility hitherto unknown from conventional indicator lights. The MCI can display up to 16 million colors. Thanks to various flashing frequencies and dimmability the MCI can be optimally adapted to existing lighting conditions. The SmartWire-DT master is used to control and configure the Multicolor element.

The RMQ compact solution version of MCI enables the visualization of different machine states using up to 5 colors and 2 different flash settings. Where several devices were previously required, a single multicolor LED element can now display all the required signals.



High brightness. Small size. Maximum flexibility.

The high-performance LED elements integrate seamlessly into our existing RMQ system. This enables much brighter illumination of indicator lights, illuminated pushbuttons, illuminated selector switches and illuminated emergency-stop buttons.

The LEDs stand out for their extreme brightness and color brilliance. This makes it possible to clearly indicate and detect machine states even in environments with high levels of ambient light.



Easy to configure. Countless combinations.

Easy to select, configure, and order. The online tool provides a quick overview of all the pilot devices in the RMQ-Titan series and the numerous combination options available. With its intuitive user interface, the Configurator is the perfect way to find out what the right solutions for your specific needs are.

To use the Eaton Pushbutton Configurator, visit:
Eaton.com/rmqconfigurator

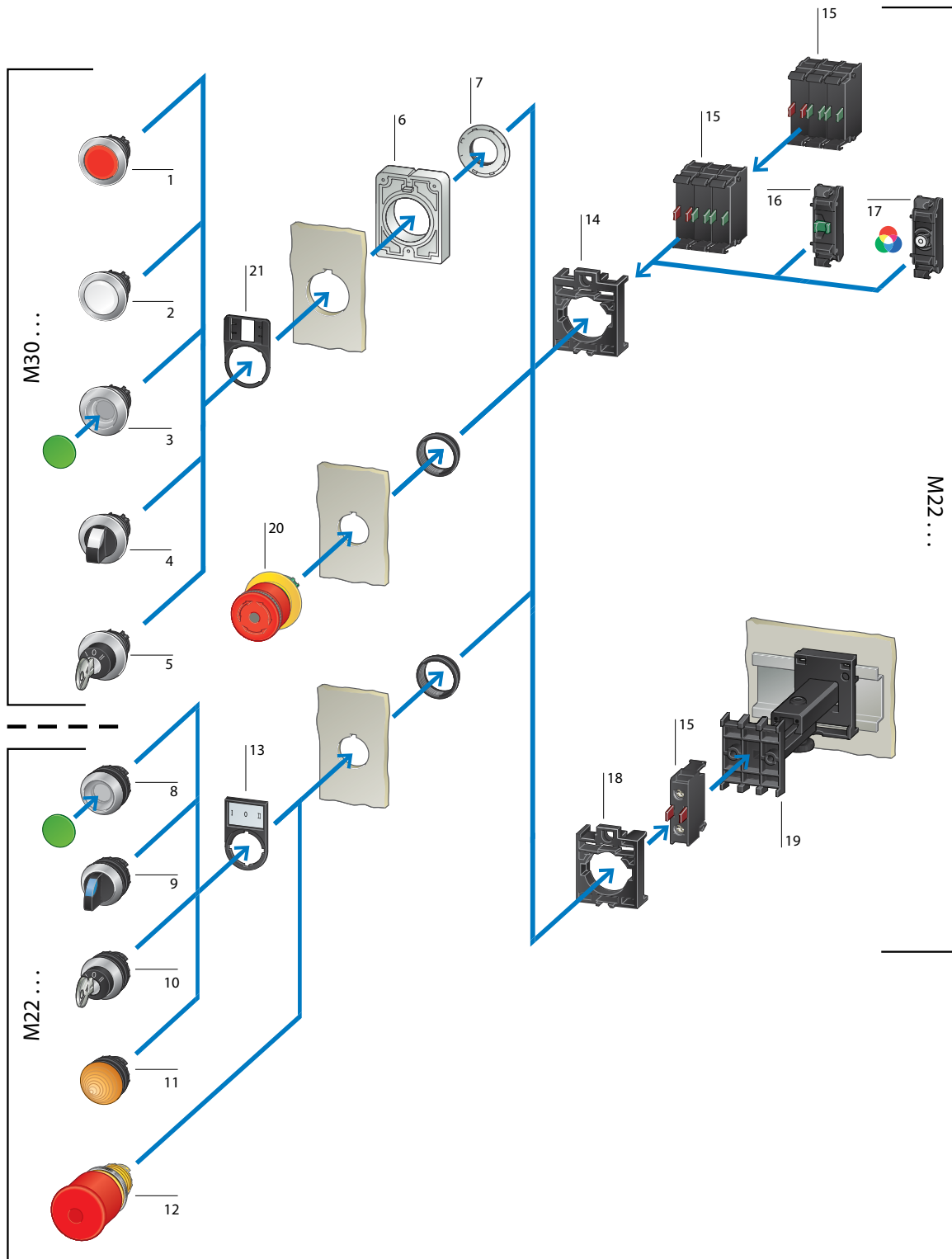


Bright, loud, rugged, fast, efficient, versatile, and unmistakable

With their bright LED technology, the signal towers SL7 and SL4 increase awareness of machine states as well as boosting perceptibility, especially in adverse light conditions. Through the use of high-power LEDs and loud acoustic modules, operating states are operating conditions even under unfavorable even under unfavorable light and noise conditions. perceived even in unfavorable light and noise conditions. Their protection type IP66 ensures the signal towers can also be used in adverse environments. With a special quick-mounting system, they can be removed with a single action and directly reconnected.

- LED technology for all functions and common voltages
- High-performance LEDs for increased perceptibility
- Adjustable volume for various ambient conditions
- Up to eight different signal sounds
- Flexible mounting options
- Communication via SmartWire-DT and AS-Interface.

More information on
Eaton.com/SL



- | | | | | |
|---|------------------------------|----------------------------|--------------------------------|------------------|
| 1) M30 indicator light | 6) RMQ-AFX | 11) M22 indicator lights | 16) Flat rear contact elements | 21) Label mounts |
| 2) M30 pushbuttons | 7) Threaded ring | 12) Emergency stop buttons | 17) Flat Rear LED elements | |
| 3) M30 illuminated pushbutton actuators | 8) M22 pushbuttons | 13) Label mount | 18) Centering adapter | |
| 4) M30 selector switches | 9) M22 selector switches | 14) Mounting adapter | 19) Telescopic clip | |
| 5) M30 key-operated buttons | 10) M22 key-operated buttons | 15) Contact elements | 20) RMQ Small E-Stop | |

RMQ-Titan			Contact elements		Double contact element	LED elements	
Technical data			M22-(C)K...	M22-FK...	M22-CK20/02/11	M22(C)-LED...	M22-FLED...
General							
Standards			IEC/EN 60947-5-1		IEC/EN 60947-5-1	IEC/EN 60947-5-1	
Lifespan, mechanical	Operations	x 10 ⁶	5	1	–	–	–
Operating frequency	Operations/h		≤3600	≤3600	≤3600	–	–
Operating fore		N	5	4,5	10	–	–
Operating torque (screw terminals)		Nm	0,8	–	–	0,8	–
Degree of protection IEC/EN 60529			IP 20	IP 20	IP 20	IP 20	IP 20
Climatic proofing	Damp heat as defined in IEC 60 068-2-3 Damp heat, cyclic as defined in IEC 60 068-2-30						
Ambient air temperature, open		°C	–25/+70	–25/+70	–25/+70	–25/+70	–25/+70
Mounting position			any	any		any	any
Mechanical shock resistance to IEC 60068-2-27		g	30	50	30	30	50
Wire gauges							
Solid		mm ²	2 x (0,75-2,5)	2 x (0,25-1,5) ¹⁾	2 x (0,5-1,5)	2 x (0,75-2,5)	2 x (0,25-1,5) ¹⁾
Stranded		mm ²	2 x (0,75-2,5)	2 x (0,2-1,5)	2 x (0,5-1,5)	2 x (0,75-2,5)	2 x (0,2-1,5)
Flexible with ferrule		mm ²	2 x (0,5-1,5)	2 x (0,25-1,0) ²⁾	2 x (0,5-1,0)	2 x (0,5-1,5)	2 x (0,25-1,0) ²⁾
Contacts							
Rated impulse with stand voltage	U _{imp}	V AC	6000	4000		6000	4000
Rated insulation voltage	U _i	V	500	250		500	250
Overvoltage category/degree of pollution			III/3	III/3		III/3	III/3
Control circuit reliability							
at 24 V DC/5 mA	H _F	Fault probability	<10 ⁻⁷ (e.g. one failure every 10 ⁷ operations)	–			
at 5 V DC/1 mA	H _F	Fault probability	<5 x 10 ⁻⁶ (e.g. one failure every 5 x 10 ⁶ operations)	–			
Max. short-circuit protective device							
Fuseless		Type	PKZM0-10/ FAZ-B6/1	FAZ-B4			
Fuse	gG/gL	A	10	4			
Switching capacity							
Rated operational current							
AC-15	24 V	I _e	A	–	4		
	60 V	I _e	A	–	4		
	100 V	I _e	A	–	2		
	115 V	I _e	A	6	–		
	230 V	I _e	A	6	1,5		
	400 V	I _e	A	4	–		
DC-13	500 V	I _e	A	2	–		
	24 V	I _e	A	3	1,5		
	42 V	I _e	A	1,7	–		
	60 V	I _e	A	1,2	0,8		
	110 V	I _e	A	0,6 (M22-CK...:0,8)	0,4		
	220 V	I _e	A	0,3	0,2		
Lifespan, electrical							
AC-15	230 V/0,5 A	Operations	x 10 ⁶	1,6	–		
	230 V/1,0 A	Operations	x 10 ⁶	1	–		
	230 V/3,0 A	Operations	x 10 ⁶	0,7	–		
DC-13	12 V/2,8 A	Operations	x 10 ⁶	1,2	–		

Notes

- ¹⁾ Can be plugged without tools
²⁾ Use WAGO Variocrimp 4 crimping tool;
Additional versions on request

Pushbuttons



Button plate	Pushbuttons momentary	Pushbuttons maintained	Pushbuttons momentary	Pushbuttons maintained
	M22-D-S 216590	M22-DR-S 216613	M30C-FD-S 182959	M30C-FDR-S 182942
	M22-D-W 216592	M22-DR-W 216615	M30C-FD-W 182960	M30C-FDR-W 182943
	M22-D-R 216594	M22-DR-R 216617	M30C-FD-R 182918	M30C-FDR-R 182944
	M22-D-G 216596	M22-DR-G 216619	M30C-FD-G 182919	M30C-FDR-G 182945
	M22-D-Y 216598	M22-DR-Y 216621	M30C-FD-Y 182920	M30C-FDR-Y 182946
	M22-D-B 216600	M22-DR-B 216623	M30C-FD-B 182921	M30C-FDR-B 182947
	M22-D-R-X0 216605	M22-DR-R-X0 216628	M30C-FD-R-X0 182939	M30C-FDR-R-X0 182936
	M22-D-G-X1 216607	M22-DR-G-X1 216630	M30C-FD-G-X1 182956	M30C-FDR-G-X1 182931
	M22-D-S-X0 216609	M22-DR-S-X0 216632	M30C-FD-S-X0 182961	M30C-FDR-S-X0 182937
	M22-D-W-X1 216611	M22-DR-W-X1 216634	M30C-FD-W-X1 182962	M30C-FDR-W-X1 182938
None	M22-D-X 216602	M22-DR-X 216625	M30C-FD-X 182922	M30C-FDR-X 182948
without lens M22-DG-X with protective ring	M22-DG-X 220921			

Additional versions on request

Illuminated pushbutton actuators



Button plate	Illuminated pushbutton actuators, momentary	Illuminated pushbutton actuators, maintained	Illuminated pushbutton actuators, momentary	Illuminated pushbutton actuators, maintained
	M22-DL-W 216922	M22-DRL-W 216944	M30C-FDL-W 182925	M30C-FDRL-W 182950
	M22-DL-R 216925	M22-DRL-R 216946	M30C-FDL-R 182926	M30C-FDRL-R 182951
	M22-DL-G 216927	M22-DRL-G 216948	M30C-FDL-G 182927	M30C-FDRL-G 182952
	M22-DL-Y 216929	M22-DRL-Y 216950	M30C-FDL-Y 182928	M30C-FDRL-Y 182953
	M22-DL-B 216931	M22-DRL-B 216952	M30C-FDL-B 182940	M30C-FDRL-B 182954
	M22-DL-R-X0 216936	M22-DRL-R-X0 216957	M30C-FDL-R-X0 182958	M30C-FDRL-R-X0 182933
	M22-DL-G-X1 216938	M22-DRL-G-X1 216959	M30C-FDL-G-X1 182957	M30C-FDRL-G-X1 182932
	M22-DL-W-X0 216940	M22-DRL-W-X0 216961	M30C-FDL-W-X0 182929	M30C-FDRL-W-X0 182934
	M22-DL-W-X1 216942	M22-DRL-W-X1 216963	M30C-FDL-W-X1 182930	M30C-FDRL-W-X1 182935
None	M22-DL-X 216933	M22-DRL-X 216954	M30C-FDL-X 182941	M30C-FDRL-X 182955

Additional versions on request

Double actuator pushbuttons



M22

Button plate	Double actuator pushbuttons
	M22-DDL-GR-X1/X0 216700
	M22-DDL-WS-X1/X0 216706
	M22-DDL-GR-GB1/GB0 216702
	M22-DDL-WS-GB1/GB0 216708
	M22-DDL-S-X7/X7 216710
	M22-DDL-S-X4/X5 218145
	M22-DDL-GR 216698
	M22-DDL-WS 216704

Additional versions on request

Double actuator pushbuttons



M22



M30

Button plate	Indicator lights	Indicator lights
	M22-L-W 216771	M30C-FL-W 183287
	M22-L-R 216772	M30C-FL-R 183282
	M22-L-G 216773	M30C-FL-G 183283
	M22-L-Y 216774	M30C-FL-Y 183285
	M22-L-B 216775	M30C-FL-B 183284

Selector switches with thumb-grip



M22



M30

Design	Color	2 positions momentary	2 positions maintained	3 positions maintained	3 positions maintained
RMQ Titan		M22-WK 216865	M22-WRK 216867	M22-WK3 216870	M22-WRK3 216872
RMQ Flat Front Design		M30C-FWK 187103	M30C-FWRK 187109	M30C-FWK3 187104	M30C-FWRK3 187110

Additional versions on request

RGB-Elements



M22



C22

Front mounting

SWD
M22-SWD-LED-RGB 197576
M22-SWD-LEDC-RGB 198598

Additional versions on request

Front mounting

M12-Plug (4 pole)/ M12-Plug (4 pole)/ Cable open (5-pole)
C22-L-BWR-24-P1 197656
C22-L-RGY-24-P1 197569
C22-L-RGBYW-24-P72 197574

Emergency stops Small E-Stop



Installation hole	22 mm	30 mm
Head diameter	30 mm	30 mm

Pull release	M22-PV30 197535	M30-PV30 197543
Pull release illuminated	M22-PVL30 197537	M30-PVL30 197545
Turn release	M22-PVT30 197536	M30-PVT30 197544
Turn release illuminated	M22-PVLT30 197538	M30-PVLT30 197546

Additional versions on request

Emergency stops



	22 mm	22 mm	22 mm
	38 mm	45 mm	60 mm

Pull release	M22-PV 216876	M22-PV45P 152862	M22-PV-60P 152864
Pull release illuminated	M22-PVL 216878	M22-PVL45P 152860	M22-PVL60P 152861
Turn release	M22-PVT 263467	M22-PVT45P 121462	M22-PVT60P 121464
Turn release illuminated	M22-PVLT 263469	M22-PVLT45P 121460	M22-PVLT60P 121461
Turn release with key	M22-PVS 216879	M22-PVS45P-MS1 121468	M22-PVS60P-MS1 121469

Accessory Small E-Stop



Guard rings (for M22-PV...30)	M22-XGPV30 198596
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Additional versions on request

Accessory



Guard rings (for 38,45,60mm)	M22-XGPV 231273
Sealable shroud (for 38 mm)	M22-PL-PV 216397
Label (for M22-PV...)	M22-XAK11 121085

Stop-Button



Installation hole	22 mm	30 mm
Head diameter	30 mm	30 mm






Pull release, black	M22S-PV30 197539	M30S-PV30 197547
Pull release, black, illuminated	M22S-PVL30 197541	M30S-PVL30 197549

Additional versions on request

Contact elements

Flat installation depth













Category	Function	Front mounting	Base mounting	Front mounting
Screw terminals		M22-K01D 262165		
		M22-K10 216376	M22-KC10 216380	
		M22-K01 216378	M22-KC01 216382	
Spring-cage terminals		M22-CK10 216384	M22-CKC10 216386	M22-FK10 180792
		M22-CK01 216385	M22-CKC01 216387	M22-FK01 180791

Additional versions on request

LED-Elements



Screw terminals		Spring-cage terminals / Push-in		
Front mounting	12-30V AC/DC	85-264V AC	Slim mounting depth 12-30V AC/DC	High performance
	M22-LED-W 216557	M22-LED230-W 216563	M22-FLED-W 180795	M22-FLED-W-HP 197141
	M22-LED-R 216558	M22-LED230-R 216564	M22-FLED-R 180798	M22-FLED-R-HP 197142
	M22-LED-G 216559	M22-LED230-G 216565	M22-FLED-G 180797	M22-FLED-G-HP 197143
	M22-LED-B 218057	M22-LED230-B 218059	M22-FLED-B 180796	M22-FLED-B-HP 197145
			M22-FLED-RG 180799	
			M22-FLED-RGB 180800	

Screw terminals		
Base mounting	12-30V AC/DC	85-264V AC
	M22-LEDC-W 216560	M22-LEDC230-W 216566
	M22-LEDC-R 216561	M22-LEDC230-R 216567
	M22-LEDC-G 216562	M22-LEDC230-G 216568
	M22-LEDC-B 218058	M22-LEDC230-B 218060

Adapter

Front mounting

M22-A
216374

M22-A4 *
279437

*only for Joystick



Additional versions on request

Surface mounting enclosures



Mounting locations/ color	Surface mounting enclosures	Flat Enclosure, M22	Flat Enclosure, M30	Flat Enclosure, M22 and M30
1	M22-IY1 216536	M22-FIY1 107231		
1	M22-I1 216535	M22-FI1 197230	M30-FI1 197235	
2	M22-I2 216537	M22-FI2 197232	M30FI2 197236	
3	M22-I3 216538	M22-FI3 197233	M30-FI3 197237	
4	M22-I4 216539	M22-FI4 197234	M30-FI4 197238	M30-FI4-PV 197239
6	M22-I6 216540			

Additional versions on request

Joystick



Function	22.5 mm	30.5 mm
4 positions, momentary	M22-WJS4 178568	M30C-FWJS4 187077
4 positions, maintained	M22-WRJS4 178566	
2 positions, momentary, horizontal	M22-WJS2H 178570	
2 positions, maintained, horizontal	M22-WRJS2H 178576	M30C-FWRJS2H 187078
2 positions, momentary, vertical	M22-WJS2V 178571	

Potentiometer/Encoder/USB/RJ45



M30



M30



M22

kOhm	22.5 mm	30.5 mm	22.5 mm	30.5 mm
1	M22-R1K 229489	M30C-FR1K 187029	M22-USB 147539	M30C-FUSB 187082
4,7	M22-R4K7 229490	M30C-FR4K7 187030	M22-RJ45-SA 107413	M30C-FRJ45 187086
10	M22-R10K 229491	M30C-FR10K 187035		
47	M22-R47K 229492	M30C-FR47K 187031		
100	M22-R100K 229493	M30C-FR100K 187032		
470	M22-R470K 229494	M30C-FR470K 187033		
	M22-INC-SWD 179981	M30C-FINC-SWD 187079		
	M22-INC-SWD-INC 179983	M30C-FINC-SWD-INC 188245		

Additional versions on request

RMQ compact solution

Selected types

Pushbuttons

Article no.	Part no.
181041	C22-D-G-K10-P5
181043	C22-D-R-K01-P5
181045	C22-D-S-K01-P5
181047	C22-D-W-K10-P5
185670	C22-D-G-K10-P62
185671	C22-D-R-K01-P62
185672	C22-D-S-K01-P62
185673	C22-D-W-K10-P62

Illuminated pushbutton actuators

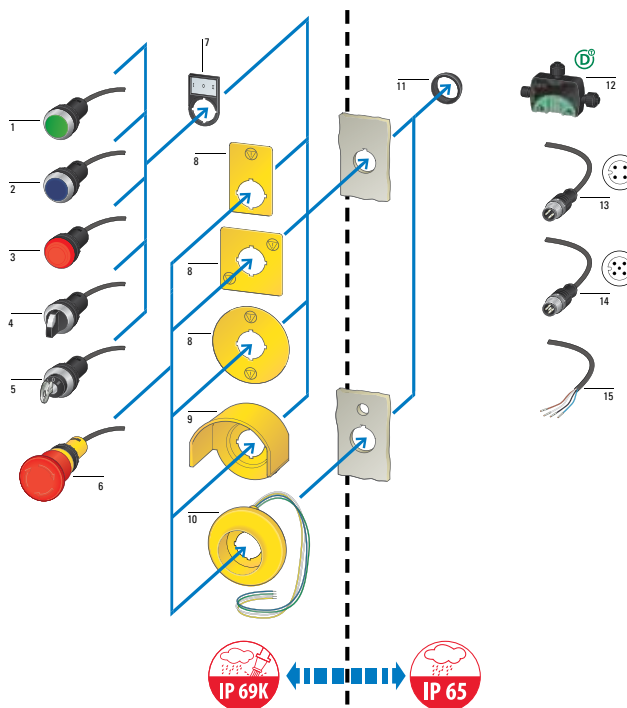
Article no.	Part no.
181298	C22-DL-B-K10-24-P5
181300	C22-DL-G-K10-24-P5
181303	C22-DL-R-K01-24-P5
181307	C22-DL-W-K10-24-P5
185585	C22-DL-B-K10-24-P62
185586	C22-DL-G-K10-24-P62
185587	C22-DL-R-K01-24-P62
185588	C22-DL-W-K10-24-P62

Indicator lights

Article no.	Part no.
181137	C22-L-B-24-P5
181139	C22-L-G-24-P5
181141	C22-L-R-24-P5
181059	C22-L-W-24-P5
181061	C22-L-Y-24-P5
185139	C22-L-B-24-P62
185140	C22-L-G-24-P62
185141	C22-L-R-24-P62
185142	C22-L-W-24-P62
185143	C22-L-Y-24-P62

The RMQ compact solution pilot devices can be directly integrated into the machine body. Cables, connectors and housings are already integrated and permanently installed in these all-in-one devices.

- Degree of protection IP69 (front): Cleaning and maintenance of the machine becomes easier
- Degree of protection IP65 (back): No additional housing in most environments necessary
- Pre-configured cable connection with M12 connectors or open-ended cable (pigtail solution)
- Cable lengths of 20 cm, 50 cm, 1 m and 3.5 m



- | | |
|---|----------------------------------|
| 1) C22 pushbuttons | 9) Guard rings |
| 2) C22 illuminated pushbutton actuators | 10) Illuminated rings |
| 3) C22 indicator lights | 11) Threaded rings |
| 4) C22 selector switches | 12) SWD I/O module |
| 5) C22 key-operated buttons | 13) Cable with M12A plug, 4 pole |
| 6) C22 emergency stops | 14) Cable with M12A plug, 5 pole |
| 7) Label mounts | 15) Cable end open, 4 pole |
| 8) Emergency stop labels, IP66 | |

For additional versions please visit the Pushbutton-Configurator: www.eaton.de/config/rmq

Selector switches		Key-operated selector switches		E-stops	
Article no.	Part no.	Article no.	Part no.	Article no.	Part no.
186114	C22-WK-K10-P5	186210	C22-WS-MS1-K10-P5	185184	C22-PV-K02-P10
186119	C22-WRK-K10-P5	186215	C22-WRS-MS1-K10-P5	185183	C22-PVT45P-K02-P10
186161	C22-WK-K01-P62	186257	C22-WS-MS1-K01-P62	185169	C22-PV-K02-P62
186162	C22-WK-K10-P62	186258	C22-WS-MS1-K10-P62	185176	C22-PVT-K02-P62
186166	C22-WRK-K01-P62	186262	C22-WRS-MS1-K01-P62	185155	C22-PVT45P-K02-P62
186167	C22-WRK-K10-P62	186263	C22-WRS-MS1-K10-P62		

P5 = M12A, 4-pole, 1m

P62 = open cable end, 1m

P10 = M12A, 5-pole, 0.2m

P72 = open cable end, 5-pole, 1 m

Eaton's electrical business is a global leader with deep regional application expertise in power distribution and circuit protection; power quality, back-up power and energy storage; control and automation; life safety and security; structural solutions; and harsh and hazardous environment solutions. Through end-to-end services, channels and an integrated digital platform and insights Eaton is powering what matters across industries and around the world, helping customers solve their most critical electrical power management challenges.

Eaton's mission is to improve the quality of life and the environment through the use of power management technologies and services. We provide energy-efficient solutions that help our customers effectively manage electrical, hydraulic and mechanical power more efficiently, safely and sustainably. For more information, visit [Eaton.com](https://www.eaton.com).

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