

Selection aid Command and indication

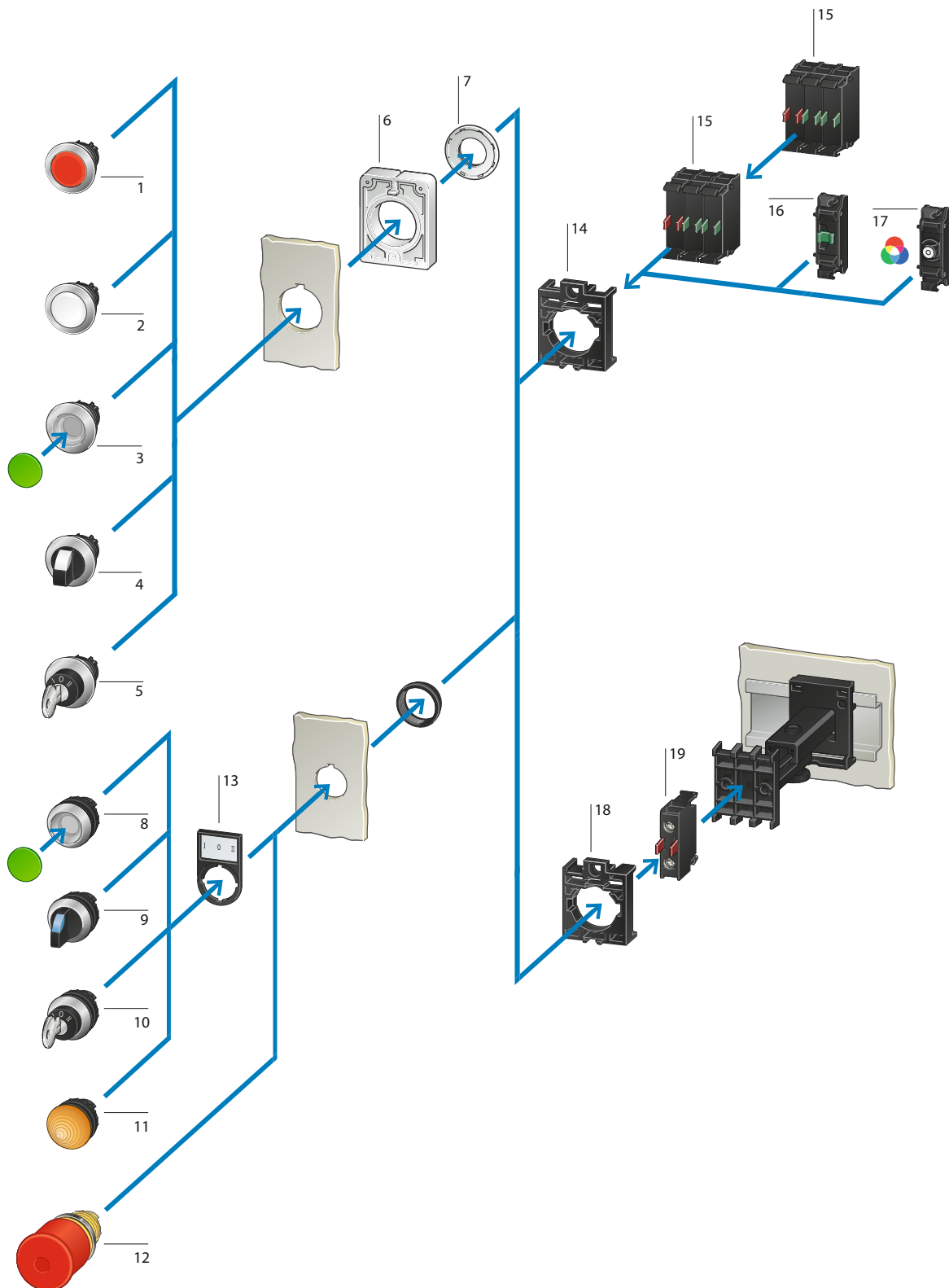
Build it in.



EATON

Powering Business Worldwide

RMQ-Titan pilot devices



- | | | | |
|---|------------------------------|----------------------------|--------------------------------|
| 1) M30 indicator lights | 6) RMQ-AFX | 11) M22 indicator lights | 16) Flat Rear contact elements |
| 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 mounts | 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 | |

RMQ compact solution

Selected types

Pushbuttons

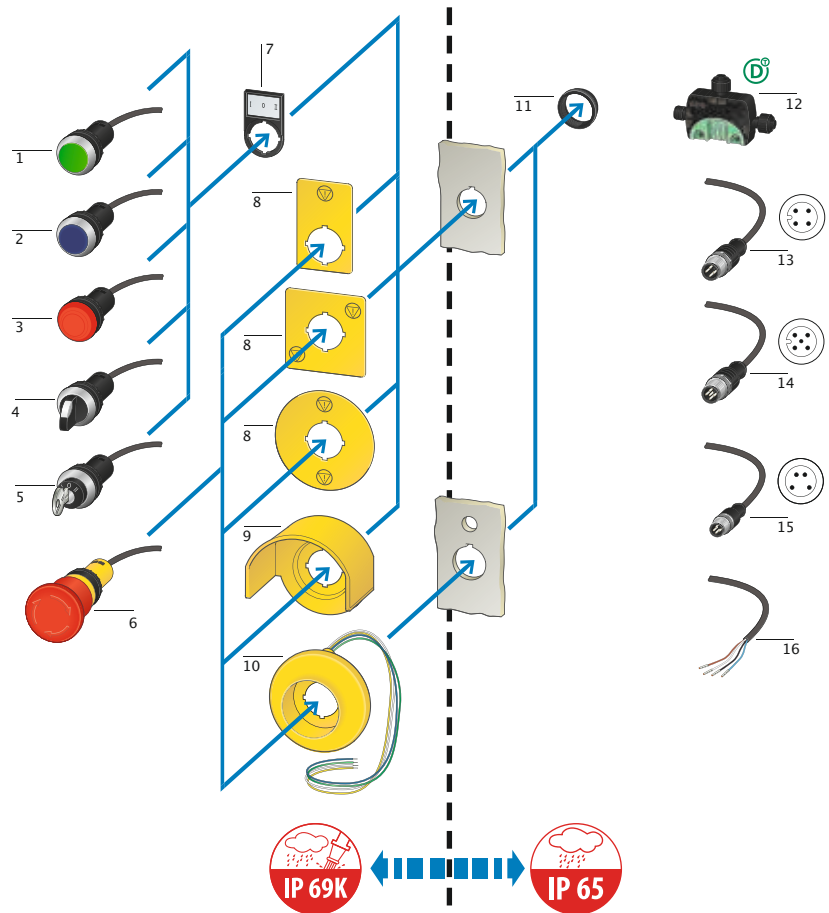
Article no.	Part no.
181041	C22-D-G-K10-P5
181043	C22-D-R-K01-P5
181045	C22-D-S-K01-P5
181047	C22-D-W-K10-P5
185670	C22-D-G-K10-P62
185671	C22-D-R-K01-P62
185672	C22-D-S-K01-P62
185673	C22-D-W-K1

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



1) C22 pushbuttons

2) C22 illuminated pushbutton actuators

3) C22 indicator lights

4) C22 selector switches

5) C22 key-operated buttons

6) C22 emergency stops

7) Label mounts

8) Emergency stop labels, IP66

9) Guard rings

10) Illuminated rings

11) Threaded rings

12) SWD I/O module

13) Cable with M12A plug, 4 pole

14) Cable with M12A plug, 5 pole

15) Cable with M8 plug, 4 pole

16) Cable end open, 4 pole

Selector switches

Article no.	Part no.
186114	C22-WK-K10-P5
186119	C22-WRK-K10-P5
186161	C22-WK-K01-P62
186162	C22-WK-K10-P62
186166	C22-WRK-K01-P62
186167	C22-WRK-K10-P62

Key-operated selector switches

Article no.	Part no.
186210	C22-WS-MS1-K10-P5
186215	C22-WRS-MS1-K10-P5
186257	C22-WS-MS1-K01-P62
186258	C22-WS-MS1-K10-P62
186262	C22-WRS-MS1-K01-P62
186263	C22-WRS-MS1-K10-P62

E-stops

Article no.	Part no.
185184	C22-PV-K02-P10
185183	C22-PVT45P-K02-P10
185169	C22-PV-K02-P62
185176	C22-PVT-K02-P62
185155	C22-PVT45P-K02-P62

P5 = M12A, 4 pole, 1m

P62 = open cable end, 1m

P10 = M12A, 5 pole, 0.2m

Additional versions on request

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 force		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)	1 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)	1 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)	1 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
Overtoltage 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	–		
	500 V	I _e	A	2	–		
DC-13	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

Links to Pushbutton Configurator:

www.eaton.eu/config/rmq
www.eaton.de/config/rmq



Pushbuttons



RMQ-Titan



RMQ Flat Front Design

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



RMQ-Titan



RMQ Flat Front Design

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 182935
	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



Button plate

Double actuator pushbuttons

	M22-DDL-GR-X1/X0 216788
	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

Indicator lights



RMQ-Titan



RMQ Flat Front Design

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

Emergency stops



Function

38mm

45mm

Pull release	M22-PV 216876	
Pull release, illuminated	M22-PVL 216878	
Turn-release	M22-PVT 263467	M22-PVT45P 121462
Twist release, illuminated	M22-PVLT 263469	M22-PVLT45P 121460
Twist release, with key	M22-PVS 216879	M22-PVS45P-MS1 121468

Additional versions on request

Accessory devices



Guard rings	M22-XGPV 231273
Sealable shroud	M22-PL-PV 216397
Label	M22-XAK11 121085

Selector switches with thumb-grip



Design

Color

2 positions momentary

2 positions maintained

3 positions momentary






3 positions maintained

RMQ-Titan		M22-WLK-W 216812	M22-WRLK-W 216823	M22-WLK3-W 216833	M22-WRLK3-W 216843
RMQ Flat Front Design		M30C-FWLK-W 187128	M30C-FWRLK-W 187026	M30C-FWLK3-W 187118	M30C-FWRLK3-W 187134

Additional versions on request

Contact elements













Category	Function	Front mounting	Base mounting	Slim mounting depth	Adapter
Screw terminals		M22-K01D 262165			Front mounting
		M22-K10 216376	M22-KC10 216380		M22-A 216374
		M22-K01 216378	M22-KC01 216382		M22-A4 279437
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	
Front mounting		12-30 V AC/DC	85-264 V AC	Slim mounting depth 12-30 V AC/DC	
	M22-LED-W 216557	M22-LED230-W 216563		M22-FLED-W 180795	
	M22-LED-R 216558	M22-LED230-R 216564		M22-FLED-R 180798	
	M22-LED-G 216559	M22-LED230-G 216565		M22-FLED-G 180797	
	M22-LED-B 218057	M22-LED230-B 218059		M22-FLED-B 180796	
				M22-FLED-RG 180799	
				M22-FLED-RGB 180800	

		Screw terminals	
Base mounting		12-30 V AC/DC	85-264 V 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	

Additional versions on request

Surface mounting enclosures



Joysticks









Mounting locations/color

Surface mounting enclosures

Function

22.5 mm

30.5 mm

1		M22-IY1 216536	4 positions, momentary	M22-WJS4 178568	M30C-FWJS4 187077
1		M22-I1 216535	4 positions maintained	M22-WRJS4 178566	
2		M22-I2 216537	2 positions, momentary, horizontal	M22-WJS2H 178570	
3		M22-I3 216538	2 positions, maintained, horizontal	M22-WRJS2H 178576	M30C-FWRJS2H 187078
4		M22-I4 216539	2 positions, momentary, vertical	M22-WJS2V 178571	
6		M22-I6 216540			

Additional versions on request

Potentiometer/Encoder/USB/RJ45



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	M30C-FINC-SWD 187079		
	M22-INC-SWD-INC	M30C-FINC-SWD-INC 188245		

Additional versions on request

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