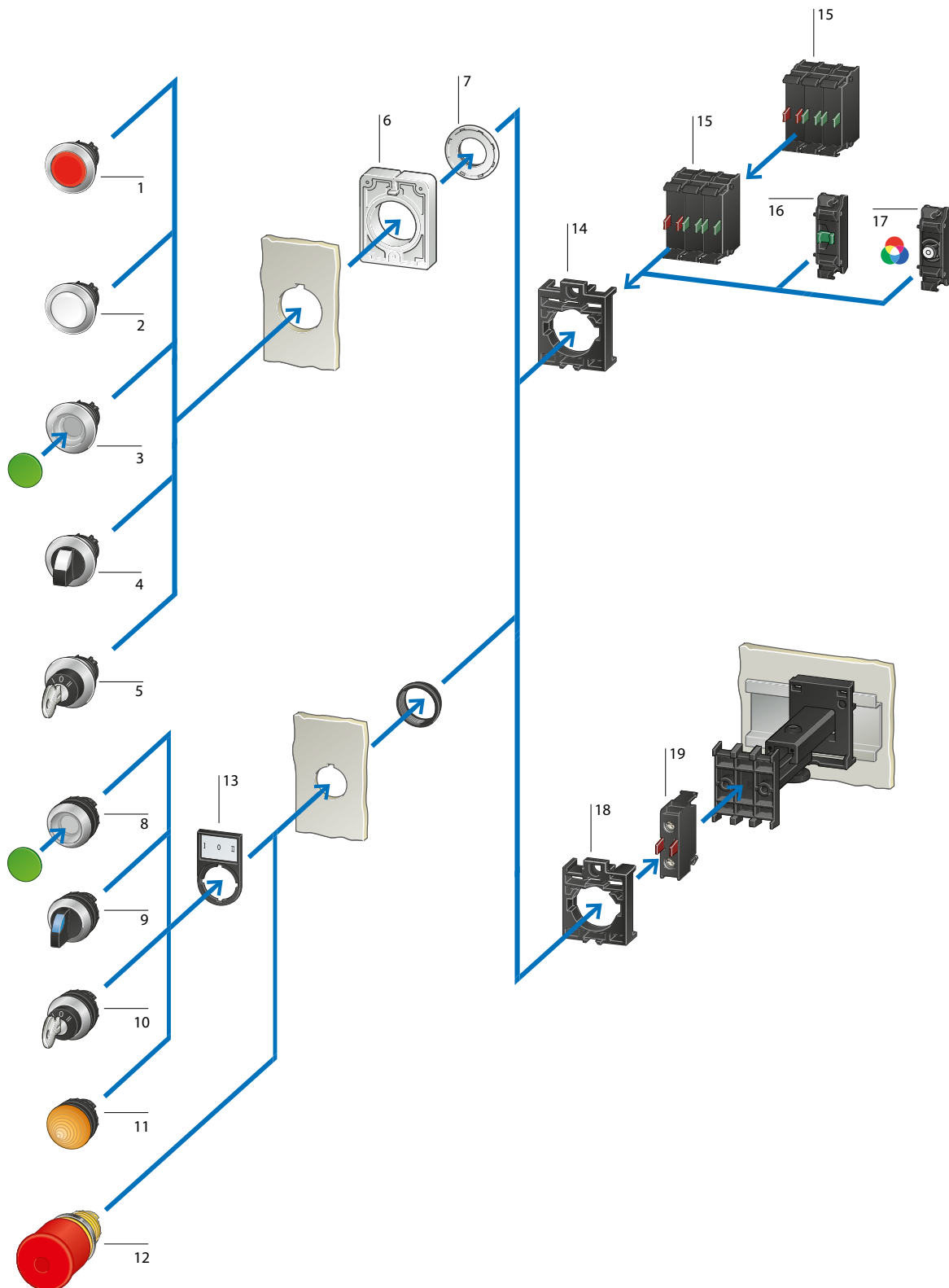


Selection aid Command and indication Build it in.



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-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	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	–25/+70
Mounting position			Any	Any		Any	Any	Any
Mechanical shock resistance to IEC 60068-2-27		g	30	50	30	30	30	50
Wire gauges								
Solid		mm ²	0.75-2.5	2x1 (0.2-1.5) 2x1 (0.75-1.5) ¹⁾	0.5-1.5	0.75-2.5	1x1 (0.2-1.5) 1x1 (0.75-1.5) ¹⁾	
Stranded		mm ²	0.5-2.5	–	0.5-1.5	0.5-2.5	1x1 (0.2-1.5)	
Flexible with ferrule		mm ²	0.5-1.5	2x1 (0.25-1) ²⁾	0.5-1.5	–	1x1 (0.25-1) 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	–			
	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

Selection aid Note:

Eaton Part numbers appear in **BOLD**

RS Article numbers are shown underneath the corresponding Eaton part number

Example:

Eaton Part number >M22-D-S

RS Article numbers >847-5143

Pushbuttons



RMQ-Titan



RMQ Flat Front Design

Button plate	Pushbuttons momentary	Pushbuttons maintained	Pushbuttons momentary	Pushbuttons maintained
	M22-D-S 847-5143	M22-DR-S 141-7698	M30C-FD-S 136-5513	M30C-FDR-S 136-5528
	M22-D-W 110-4504	M22-DR-W 110-4504	M30C-FD-W 136-5515	M30C-FDR-W 136-5529
	M22-D-R 847-5118	M22-DR-R 847-5118	M30C-FD-R 136-5511	M30C-FDR-R 136-5527
	M22-D-G 847-5055	M22-DR-G 110-4512	M30C-FD-G 136-5509	M30C-FDR-G 136-5526
	M22-D-Y 110-4505	M22-DR-Y 110-4505	M30C-FD-Y 136-5508	M30C-FDR-Y Available on request
	M22-D-B 847-5049	M22-DR-B 847-5112	M30C-FD-B 136-5507	M30C-FDR-B Available on request
	M22-D-R-X0 110-4508	M22-DR-R-X0 110-4508	M30C-FD-R-X0 136-5512	M30C-FDR-R-X0 Available on request
	M22-D-G-X1 110-4509	M22-DR-G-X1 110-4509	M30C-FD-G-X1 136-5510	M30C-FDR-G-X1 Available on request
	M22-D-S-X0 110-4510	M22-DR-S-X0 110-4510	M30C-FD-S-X0 136-5514	M30C-FDR-S-X0 Available on request
	M22-D-W-X1 110-4511	M22-DR-W-X1 110-4511	M30C-FD-W-X1 136-5517	M30C-FDR-W-X1 Available on request
None	M22-D-X 847-5146	M22-DR-X 110-4514	M30C-FD-X Available on request	M30C-FDR-X Available on request
without lens M22-DG-X with protective ring	M22-DG-X 446-5316			

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 847-5083	M22-DRL-W 110-4552	M30C-FDL-W 136-5525	M30C-FDRL-W 136-5530
	M22-DL-R 847-5089	M22-DRL-R 847-5128	M30C-FDL-R 136-5524	M30C-FDRL-R 136-5534
	M22-DL-G 847-5086	M22-DRL-G 110-4553	M30C-FDL-G 136-5523	M30C-FDRL-G 136-5531
	M22-DL-Y 847-5095	M22-DRL-Y 110-4554	M30C-FDL-Y 136-5522	M30C-FDRL-Y 136-5533
	M22-DL-B 847-5077	M22-DRL-B 110-4555	M30C-FDL-B 136-5521	M30C-FDRL-B 136-5532
	M22-DL-R-X0 110-4549	M22-DRL-R-X0 141-7700	M30C-FDL-R-X0 136-5519	M30C-FDRL-R-X0 Available on request
	M22-DL-G-X1 110-4550	M22-DRL-G-X1 141-7701	M30C-FDL-G-X1 136-5518	M30C-FDRL-G-X1 Available on request
	M22-DL-W-X0 141-7699	M22-DRL-W-X0 141-7702	M30C-FDL-W-X0 Available on request	M30C-FDRL-W-X0 Available on request
	M22-DL-W-X1 110-4551	M22-DRL-W-X1 141-7703	M30C-FDL-W-X1 136-5520	M30C-FDRL-W-X1 Available on request
None	M22-DL-X 847-5092	M22-DRL-X 110-4556	M30C-FDL-X Available on request	M30C-FDRL-X Available on request

Additional versions on request

Double actuator pushbuttons



Button plate

Double actuator pushbuttons

	M22-DDL-GR-X1/X0 110-4515
	M22-DDL-WS-C1/X0 110-4518
	M22-DDL-GR-GB1/GB0 110-4517
	M22-DDL-GR-GB1/GB0 110-4517
	M22-DDL-WS-GB1/GB0 110-4519
	M22-DDL-WS-GB1/GB0 110-4519
	M22-DDL-S-X7/X7 110-4520
	M22-DDL-S-X4/X5 110-4557
	M22-DDL-GR 847-5058
	M22-DDL-GR 847-5058
	M22-DDL-WS 847-5051
	M22-DDL-WS 847-5051

Additional versions on request

Indicator lights



RMQ-Titan



RMQ Flat Front Design

Button plate

Indicator lights

Indicator lights

	M22-L-W 847-5187	M30C-FL-W 136-5540
	M22-L-R 847-5178	M30C-FL-R 136-5539
	M22-L-G 847-5174	M30C-FL-G 136-5538
	M22-L-Y 847-5180	M30C-FL-Y 136-5537
	M22-L-B 847-5171	M30C-FL-B 136-5536

Emergency stops



Function

38mm

45mm

Pull release	M22-PV 847-5184	
Pull release, illuminated	M22-PVL 110-4542	
Turn-release	M22-PVT 847-5196	M22-PVT45P 743-5030
Twist release, illuminated	M22-PVLT 110-4568	M22-PVLT45P 743-5021
Twist release, with key	M22-PVS 847-5193	M22-PVS45P-MS1 743-5028

Additional versions on request

Accessory devices



Guard rings	M22-XGPV 620-6169
Sealable shroud	M22-PL-PV 399-3135
Label	M22-XAK11 110-4495

Selector switches with thumb-grip



Design

Color

2 positions momentary

2 positions maintained

3 positions momentary

3 positions maintained

RMQ-Titan		M22-WLK-W 110-4529	M22-WRLK-W 847-5364	M22-WLK3-W 847-5342	M22-WRLK3-W 110-4536
RMQ Flat Front Design		M30C-FWLK-W 136-5553	M30C-FWRLK-W 136-5554	M30C-FWLK3-W 136-5555	M30C-FWRLK3-W 136-5556

Additional versions on request

Contact elements



Category	Function	Front mounting	Base mounting	Slim mounting depth	Adapter
Screw terminals		M22-K01D 141-7704			Front mounting
		M22-K10 399-3573	M22-KC10 399-3589		M22-A 399-3545
		M22-K01 399-3551	M22-KC01 399-3567		M22-A4 536-3889
Spring-cage terminals		M22-CK10 399-3618	M22-CKC10 399-3624	M22-FK10 124-5192	
		M22-CK01 399-3595	M22-CKC01 399-3602	M22-FK01 124-5191	

Additional versions on request

LED elements



Front mounting	12-30 V AC/DC	85-264 V AC	Slim mounting depth 12-30 V AC/DC
	M22-LED-W 399-3630	M22-LED230-W 399-3731	M22-FLED-W 124-5193
	M22-LED-R 399-3646	M22-LED230-R 399-3747	M22-FLED-R 124-5196
	M22-LED-G 399-3652	M22-LED230-G 399-3753	M22-FLED-G 124-5195
	M22-LED-B 399-3674	M22-LED230-B 399-3769	M22-FLED-B 124-5194
			M22-FLED-RG 124-5197
			M22-FLED-RGB 124-5198

Base mounting	12-30 V AC/DC	85-264 V AC
	M22-LEDC-W 399-3680	M22-LEDC230-W 399-3775
	M22-LEDC-R 399-3696	M22-LEDC230-R 399-3681
	M22-LEDC-G 399-3703	M22-LEDC230-G 399-3797
	M22-LEDC-B 399-3719	M22-LEDC230-B 399-3804

Additional versions on request

Surface mounting enclosures



Joysticks









Mounting locations/color

Surface mounting enclosures

Function

22.5 mm

30.5 mm

1		M22-IY1 399-3826	4 positions, momentary	M22-WJS4 Available on request	M30C-FWJS4 Available on request
1		M22-I1 399-3810	4 positions maintained	M22-WRJS4 Available on request	
2		M22-I2 399-3832	2 positions, momentary, horizontal	M22-WJS2H Available on request	
3		M22-I3 399-3848	2 positions, maintained, horizontal	M22-WRJS2H Available on request	M30C-FWRJS2H Available on request
4		M22-I4 399-3854	2 positions, momentary, vertical	M22-WJS2V Available on request	
6		M22-I6 399-3860			

Additional versions on request

Potentiometer/Encoder/USB/RJ45



kOhm

22.5 mm

30.5 mm

22.5 mm

30.5 mm

1	M22-R1K 620-6052	M30C-FR1K 136-5542	M22-USB Available on request	M30C-FUSB Available on request
4.7	M22-R4K7 620-6096	M30C-FR4K7 136-5543	M22-RJ45-SA 847-5190	M30C-FRJ45 Available on request
10	M22-R10K 620-6074	M30C-FR10K 136-5541		
47	M22-R47K 620-6080	M30C-FR47K Available on request		
100	M22-R100K 620-6052	M30C-FR100K Available on request		
470	M22-R470K 620-6068	M30C-FR470K Available on request		
	M22-INC-SWD	M30C-FINC-SWD Available on request		
	M22-INC-SWD-INC	M30C-FINC-SWD-INC Available on request		

Additional versions on request