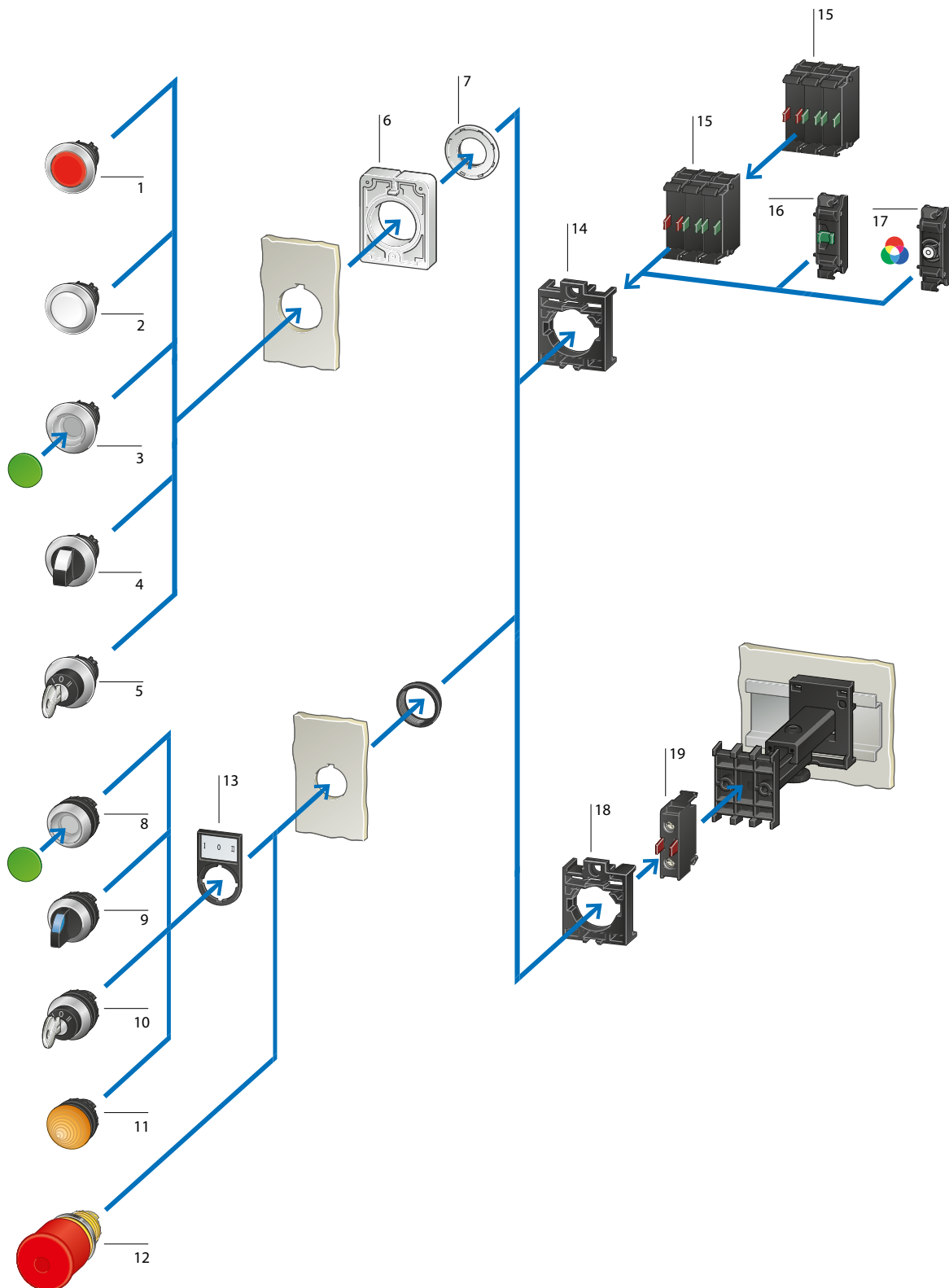


# Selection aid Command and indication Build it in.



# 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       |                                |

<b>RMQ-Titan</b> Technical data				Contact elements		Double contact element	LED elements	
				M22-(C)K...	M22-FK...	M22-CK20/02/11	M22(C)-LED....	M22-FLED...
<b>General</b>								
Standards			IEC/EN 60947-5-1		IEC/EN 60947-5-1	IEC/EN 60947-5-1		
Lifespan, mechanical	Operations	x 10 <sup>6</sup>	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
<b>Wire gauges</b>								
Solid		mm <sup>2</sup>	0.75-2.5	2x1 (0.2-1.5) 2x1 (0.75-1.5) <sup>1)</sup>	0.5-1.5	0.75-2.5	1x1 (0.2-1.5) 1x1 (0.75-1.5) <sup>1)</sup>	
Stranded		mm <sup>2</sup>	0.5-2.5	–	0.5-1.5	0.5-2.5	1x1 (0.2-1.5)	
Flexible with ferrule		mm <sup>2</sup>	0.5-1.5	2x1 (0.25-1) <sup>2)</sup>	0.5-1.5	–	1x1 (0.25-1) <sup>2)</sup>	
<b>Contacts</b>								
Rated impulse with stand voltage	U <sub>imp</sub>	V AC	6000	4000		6000	4000	
Rated insulation voltage	U <sub>i</sub>	V	500	250		500	250	
Overvoltage category/degree of pollution			III/3	III/3		III/3	III/3	
<b>Control circuit reliability</b>								
at 24 V DC/5 mA	H <sub>F</sub>	Fault probability	<10 <sup>-7</sup> (e.g. one failure every 10 <sup>7</sup> operations)	–				
at 5 V DC/1 mA	H <sub>F</sub>	Fault probability	<5 x 10 <sup>-6</sup> (e.g. one failure every 5 x 10 <sup>6</sup> operations)	–				
<b>Max. short-circuit protective device</b>								
Fuseless		Type	PKZM0-10/ FAZ-B6/1	FAZ-B4				
Fuse	gG/gL	A	10	4				
<b>Switching capacity</b>								
Rated operational current								
AC-15	24 V	I <sub>e</sub>	A	–	4			
	60 V	I <sub>e</sub>	A	–	4			
	100 V	I <sub>e</sub>	A	–	2			
	115 V	I <sub>e</sub>	A	6	–			
	230 V	I <sub>e</sub>	A	6	1.5			
	400 V	I <sub>e</sub>	A	4	–			
	500 V	I <sub>e</sub>	A	2	–			
DC-13	24 V	I <sub>e</sub>	A	3	1.5			
	42 V	I <sub>e</sub>	A	1.7	–			
	60 V	I <sub>e</sub>	A	1.2	0.8			
	110 V	I <sub>e</sub>	A	0.6 (M22-CK....0.8)	0.4			
	220 V	I <sub>e</sub>	A	0.3	0.2			
<b>Lifespan, electrical</b>								
AC-15	230 V/0.5 A	Operations	x 10 <sup>6</sup>	1.6	–			
	230 V/1.0 A	Operations	x 10 <sup>6</sup>	1	–			
	230 V/3.0 A	Operations	x 10 <sup>6</sup>	0.7	–			
DC-13	12 V/2.8 A	Operations	x 10 <sup>6</sup>	1.2	–			

#### Notes

- <sup>1)</sup> Can be plugged without tools  
<sup>2)</sup> Use WAGO Variocrimp 4 crimping tool  
Additional versions on request

#### Links to Pushbutton Configurator:

[www.eaton.eu/config/rmq](http://www.eaton.eu/config/rmq)  
[www.eaton.de/config/rmq](http://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
	<b>M22-D-S</b> 847-5143	<b>M22-DR-S</b> 141-7698	<b>M30C-FD-S</b> 136-5513	<b>M30C-FDR-S</b> 136-5528
	<b>M22-D-W</b> 110-4504	<b>M22-DR-W</b> 110-4504	<b>M30C-FD-W</b> 136-5515	<b>M30C-FDR-W</b> 136-5529
	<b>M22-D-R</b> 847-5118	<b>M22-DR-R</b> 847-5118	<b>M30C-FD-R</b> 136-5511	<b>M30C-FDR-R</b> 136-5527
	<b>M22-D-G</b> 847-5055	<b>M22-DR-G</b> 110-4512	<b>M30C-FD-G</b> 136-5509	<b>M30C-FDR-G</b> 136-5526
	<b>M22-D-Y</b> 110-4505	<b>M22-DR-Y</b> 110-4505	<b>M30C-FD-Y</b> 136-5508	<b>M30C-FDR-Y</b> Available on request
	<b>M22-D-B</b> 847-5049	<b>M22-DR-B</b> 847-5112	<b>M30C-FD-B</b> 136-5507	<b>M30C-FDR-B</b> Available on request
	<b>M22-D-R-X0</b> 110-4508	<b>M22-DR-R-X0</b> 110-4508	<b>M30C-FD-R-X0</b> 136-5512	<b>M30C-FDR-R-X0</b> Available on request
	<b>M22-D-G-X1</b> 110-4509	<b>M22-DR-G-X1</b> 110-4509	<b>M30C-FD-G-X1</b> 136-5510	<b>M30C-FDR-G-X1</b> Available on request
	<b>M22-D-S-X0</b> 110-4510	<b>M22-DR-S-X0</b> 110-4510	<b>M30C-FD-S-X0</b> 136-5514	<b>M30C-FDR-S-X0</b> Available on request
	<b>M22-D-W-X1</b> 110-4511	<b>M22-DR-W-X1</b> 110-4511	<b>M30C-FD-W-X1</b> 136-5517	<b>M30C-FDR-W-X1</b> Available on request
None	<b>M22-D-X</b> 847-5146	<b>M22-DR-X</b> 110-4514	<b>M30C-FD-X</b> Available on request	<b>M30C-FDR-X</b> Available on request
without lens M22-DG-X with protective ring	<b>M22-DG-X</b> 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
	<b>M22-DL-W</b> 847-5083	<b>M22-DRL-W</b> 110-4552	<b>M30C-FDL-W</b> 136-5525	<b>M30C-FDRL-W</b> 136-5530
	<b>M22-DL-R</b> 847-5089	<b>M22-DRL-R</b> 847-5128	<b>M30C-FDL-R</b> 136-5524	<b>M30C-FDRL-R</b> 136-5534
	<b>M22-DL-G</b> 847-5086	<b>M22-DRL-G</b> 110-4553	<b>M30C-FDL-G</b> 136-5523	<b>M30C-FDRL-G</b> 136-5531
	<b>M22-DL-Y</b> 847-5095	<b>M22-DRL-Y</b> 110-4554	<b>M30C-FDL-Y</b> 136-5522	<b>M30C-FDRL-Y</b> 136-5533
	<b>M22-DL-B</b> 847-5077	<b>M22-DRL-B</b> 110-4555	<b>M30C-FDL-B</b> 136-5521	<b>M30C-FDRL-B</b> 136-5532
	<b>M22-DL-R-X0</b> 110-4549	<b>M22-DRL-R-X0</b> 141-7700	<b>M30C-FDL-R-X0</b> 136-5519	<b>M30C-FDRL-R-X0</b> Available on request
	<b>M22-DL-G-X1</b> 110-4550	<b>M22-DRL-G-X1</b> 141-7701	<b>M30C-FDL-G-X1</b> 136-5518	<b>M30C-FDRL-G-X1</b> Available on request
	<b>M22-DL-W-X0</b> 141-7699	<b>M22-DRL-W-X0</b> 141-7702	<b>M30C-FDL-W-X0</b> Available on request	<b>M30C-FDRL-W-X0</b> Available on request
	<b>M22-DL-W-X1</b> 110-4551	<b>M22-DRL-W-X1</b> 141-7703	<b>M30C-FDL-W-X1</b> 136-5520	<b>M30C-FDRL-W-X1</b> Available on request
None	<b>M22-DL-X</b> 847-5092	<b>M22-DRL-X</b> 110-4556	<b>M30C-FDL-X</b> Available on request	<b>M30C-FDRL-X</b> Available on request

Additional versions on request

## Double actuator pushbuttons



### Button plate

### Double actuator pushbuttons

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

Additional versions on request

## Indicator lights



RMQ-Titan



RMQ Flat Front Design

### Button plate

### Indicator lights

### Indicator lights

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

## Emergency stops



### Function

### 38mm

### 45mm

Pull release	<b>M22-PV</b> 847-5184	
Pull release, illuminated	<b>M22-PVL</b> 110-4542	
Turn-release	<b>M22-PVT</b> 847-5196	<b>M22-PVT45P</b> 743-5030
Twist release, illuminated	<b>M22-PVLT</b> 110-4568	<b>M22-PVLT45P</b> 743-5021
Twist release, with key	<b>M22-PVS</b> 847-5193	<b>M22-PVS45P-MS1</b> 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		<b>M22-WLK-W</b> 110-4529	<b>M22-WRLK-W</b> 847-5364	<b>M22-WLK3-W</b> 847-5342	<b>M22-WRLK3-W</b> 110-4536
RMQ Flat Front Design		<b>M30C-FWLK-W</b> 136-5553	<b>M30C-FWRLK-W</b> 136-5554	<b>M30C-FWLK3-W</b> 136-5555	<b>M30C-FWRLK3-W</b> 136-5556

Additional versions on request

## Contact elements



Category	Function	Front mounting	Base mounting	Slim mounting depth	Adapter
Screw terminals		<b>M22-K01D</b> 141-7704			Front mounting
		<b>M22-K10</b> 399-3573	<b>M22-KC10</b> 399-3589		<b>M22-A</b> 399-3545
		<b>M22-K01</b> 399-3551	<b>M22-KC01</b> 399-3567		<b>M22-A4</b> 536-3889
Spring-cage terminals		<b>M22-CK10</b> 399-3618	<b>M22-CKC10</b> 399-3624	<b>M22-FK10</b> 124-5192	
		<b>M22-CK01</b> 399-3595	<b>M22-CKC01</b> 399-3602	<b>M22-FK01</b> 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
	<b>M22-LED-W</b> 399-3630	<b>M22-LED230-W</b> 399-3731	<b>M22-FLED-W</b> 124-5193
	<b>M22-LED-R</b> 399-3646	<b>M22-LED230-R</b> 399-3747	<b>M22-FLED-R</b> 124-5196
	<b>M22-LED-G</b> 399-3652	<b>M22-LED230-G</b> 399-3753	<b>M22-FLED-G</b> 124-5195
	<b>M22-LED-B</b> 399-3674	<b>M22-LED230-B</b> 399-3769	<b>M22-FLED-B</b> 124-5194
			<b>M22-FLED-RG</b> 124-5197
			<b>M22-FLED-RGB</b> 124-5198

Base mounting	12-30 V AC/DC	85-264 V AC
	<b>M22-LEDC-W</b> 399-3680	<b>M22-LEDC230-W</b> 399-3775
	<b>M22-LEDC-R</b> 399-3696	<b>M22-LEDC230-R</b> 399-3681
	<b>M22-LEDC-G</b> 399-3703	<b>M22-LEDC230-G</b> 399-3797
	<b>M22-LEDC-B</b> 399-3719	<b>M22-LEDC230-B</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		<b>M22-IY1</b> 399-3826	4 positions, momentary	<b>M22-WJS4</b> Available on request	<b>M30C-FWJS4</b> Available on request
1		<b>M22-I1</b> 399-3810	4 positions maintained	<b>M22-WRJS4</b> Available on request	
2		<b>M22-I2</b> 399-3832	2 positions, momentary, horizontal	<b>M22-WJS2H</b> Available on request	
3		<b>M22-I3</b> 399-3848	2 positions, maintained, horizontal	<b>M22-WRJS2H</b> Available on request	<b>M30C-FWRJS2H</b> Available on request
4		<b>M22-I4</b> 399-3854	2 positions, momentary, vertical	<b>M22-WJS2V</b> Available on request	
6		<b>M22-I6</b> 399-3860			

Additional versions on request

## Potentiometer/Encoder/USB/RJ45



### kOhm

### 22.5 mm

### 30.5 mm

### 22.5 mm

### 30.5 mm

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

Additional versions on request