

# Selection aid Command and indication

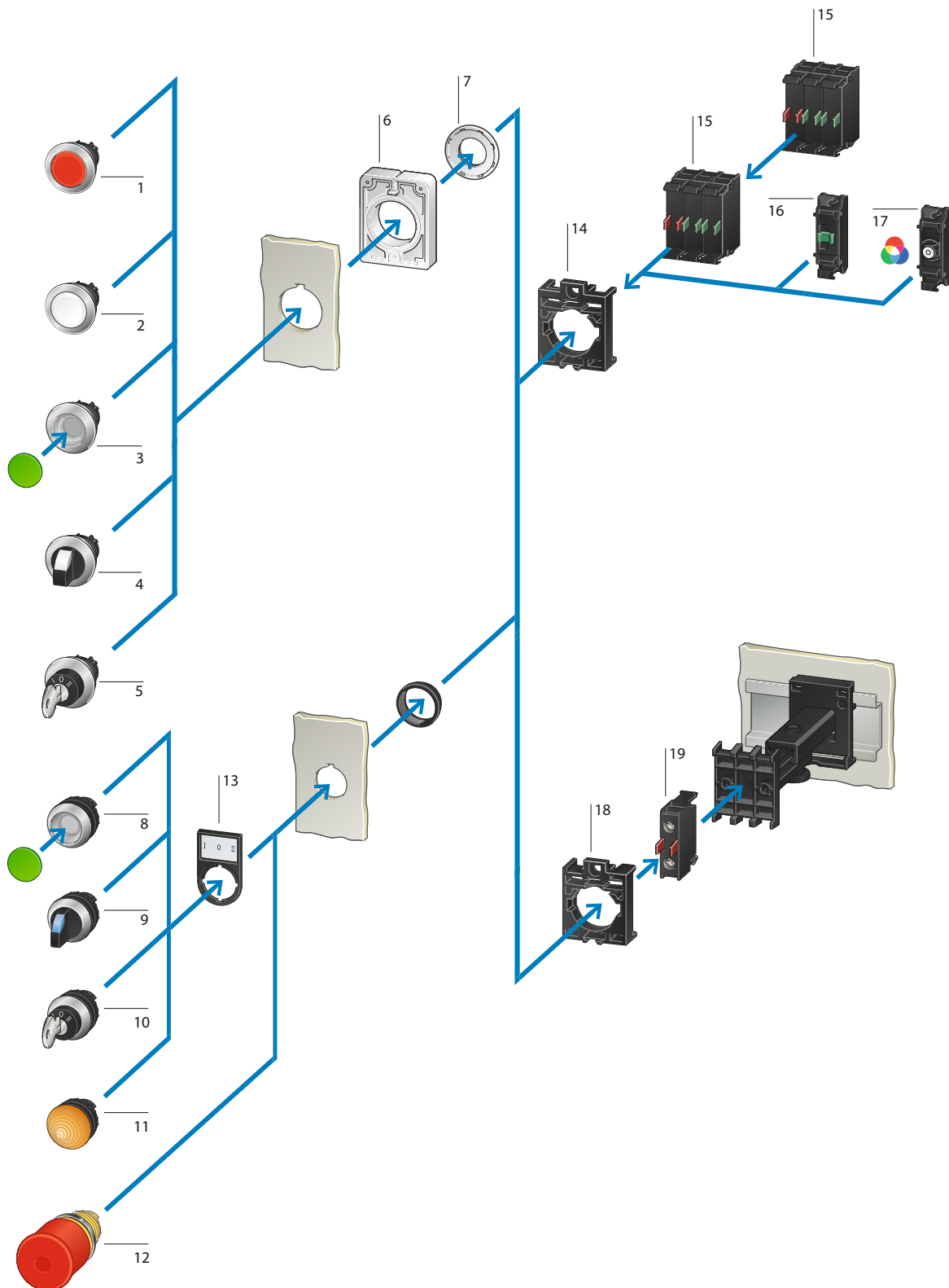
Build it in.



**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

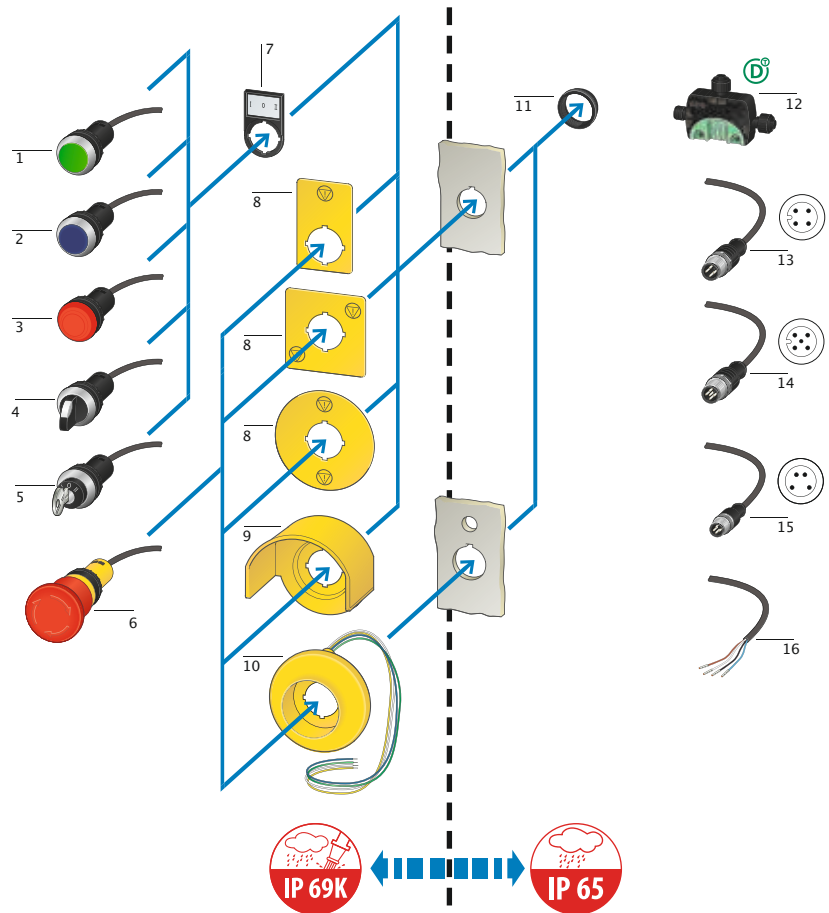
Article no.	Part no.
181041	C22-D-G-K10-P5
181043	C22-D-R-K01-P5
181045	C22-D-S-K01-P5
181047	C22-D-W-K10-P5
185670	C22-D-G-K10-P62
185671	C22-D-R-K01-P62
185672	C22-D-S-K01-P62
185673	C22-D-W-K1

### 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...
<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
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
<b>Wire gauges</b>							
Solid		mm <sup>2</sup>	2 x (0,75-2,5)	2 x (0,25-1,5) <sup>1)</sup>	2 x (0,5-1,5)	2 x (0,75-2,5)	1 x (0,25-1,5) <sup>1)</sup>
Stranded		mm <sup>2</sup>	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 <sup>2</sup>	2 x (0,5-1,5)	2 x (0,25-1,0) <sup>2)</sup>	2 x (0,5-1,0)	2 x (0,5-1,5)	1 x (0,25-1,0) <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
Overtoltage 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	–		
DC-13	500 V	I <sub>e</sub>	A	2	–		
	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)



## Pushbuttons



RMQ-Titan



RMQ Flat Front Design

Button plate	Pushbuttons momentary	Pushbuttons maintained	Pushbuttons momentary	Pushbuttons maintained
	<b>M22-D-S</b> 216590	<b>M22-DR-S</b> 216613	<b>M30C-FD-S</b> 182959	<b>M30C-FDR-S</b> 182942
	<b>M22-D-W</b> 216592	<b>M22-DR-W</b> 216615	<b>M30C-FD-W</b> 182960	<b>M30C-FDR-W</b> 182943
	<b>M22-D-R</b> 216594	<b>M22-DR-R</b> 216617	<b>M30C-FD-R</b> 182918	<b>M30C-FDR-R</b> 182944
	<b>M22-D-G</b> 216596	<b>M22-DR-G</b> 216619	<b>M30C-FD-G</b> 182919	<b>M30C-FDR-G</b> 182945
	<b>M22-D-Y</b> 216598	<b>M22-DR-Y</b> 216621	<b>M30C-FD-Y</b> 182920	<b>M30C-FDR-Y</b> 182946
	<b>M22-D-B</b> 216600	<b>M22-DR-B</b> 216623	<b>M30C-FD-B</b> 182921	<b>M30C-FDR-B</b> 182947
	<b>M22-D-R-X0</b> 216605	<b>M22-DR-R-X0</b> 216628	<b>M30C-FD-R-X0</b> 182939	<b>M30C-FDR-R-X0</b> 182936
	<b>M22-D-G-X1</b> 216607	<b>M22-DR-G-X1</b> 216630	<b>M30C-FD-G-X1</b> 182956	<b>M30C-FDR-G-X1</b> 182931
	<b>M22-D-S-X0</b> 216609	<b>M22-DR-S-X0</b> 216632	<b>M30C-FD-S-X0</b> 182961	<b>M30C-FDR-S-X0</b> 182937
	<b>M22-D-W-X1</b> 216611	<b>M22-DR-W-X1</b> 216634	<b>M30C-FD-W-X1</b> 182962	<b>M30C-FDR-W-X1</b> 182938
None	<b>M22-D-X</b> 216602	<b>M22-DR-X</b> 216625	<b>M30C-FD-X</b> 182922	<b>M30C-FDR-X</b> 182948
without lens M22-DG-X with protective ring	<b>M22-DG-X</b> 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
	<b>M22-DL-W</b> 216922	<b>M22-DRL-W</b> 216944	<b>M30C-FDL-W</b> 182925	<b>M30C-FDRL-W</b> 182950
	<b>M22-DL-R</b> 216925	<b>M22-DRL-R</b> 216946	<b>M30C-FDL-R</b> 182926	<b>M30C-FDRL-R</b> 182951
	<b>M22-DL-G</b> 216927	<b>M22-DRL-G</b> 216948	<b>M30C-FDL-G</b> 182927	<b>M30C-FDRL-G</b> 182952
	<b>M22-DL-Y</b> 216929	<b>M22-DRL-Y</b> 216950	<b>M30C-FDL-Y</b> 182928	<b>M30C-FDRL-Y</b> 182953
	<b>M22-DL-B</b> 216931	<b>M22-DRL-B</b> 216952	<b>M30C-FDL-B</b> 182940	<b>M30C-FDRL-B</b> 182954
	<b>M22-DL-R-X0</b> 216936	<b>M22-DRL-R-X0</b> 216957	<b>M30C-FDL-R-X0</b> 182958	<b>M30C-FDRL-R-X0</b> 182933
	<b>M22-DL-G-X1</b> 216938	<b>M22-DRL-G-X1</b> 216959	<b>M30C-FDL-G-X1</b> 182957	<b>M30C-FDRL-G-X1</b> 182935
	<b>M22-DL-W-X0</b> 216940	<b>M22-DRL-W-X0</b> 216961	<b>M30C-FDL-W-X0</b> 182929	<b>M30C-FDRL-W-X0</b> 182934
	<b>M22-DL-W-X1</b> 216942	<b>M22-DRL-W-X1</b> 216963	<b>M30C-FDL-W-X1</b> 182930	<b>M30C-FDRL-W-X1</b> 182935
None	<b>M22-DL-X</b> 216933	<b>M22-DRL-X</b> 216954	<b>M30C-FDL-X</b> 182941	<b>M30C-FDRL-X</b> 182955

Additional versions on request

## Double actuator pushbuttons



Button plate

Double actuator pushbuttons

	<b>M22-DDL-GR-X1/X0</b> 216788
	<b>M22-DDL-WS-X1/X0</b> 216706
	<b>M22-DDL-GR-GB1/GB0</b> 216702
	<b>M22-DDL-WS-GB1/GB0</b> 216708
	<b>M22-DDL-S-X7/X7</b> 216710
	<b>M22-DDL-S-X4/X5</b> 218145
	<b>M22-DDL-GR</b> 216698
	<b>M22-DDL-WS</b> 216704

Additional versions on request

## Indicator lights



RMQ-Titan



RMQ Flat Front Design

Button plate

Indicator lights

Indicator lights

	<b>M22-L-W</b> 216771	<b>M30C-FL-W</b> 183287
	<b>M22-L-R</b> 216772	<b>M30C-FL-R</b> 183282
	<b>M22-L-G</b> 216773	<b>M30C-FL-G</b> 183283
	<b>M22-L-Y</b> 216774	<b>M30C-FL-Y</b> 183285
	<b>M22-L-B</b> 216775	<b>M30C-FL-B</b> 183284

## Emergency stops



Function

38mm

45mm

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

Additional versions on request

## Accessory devices



Guard rings	<b>M22-XGPV</b> 231273
Sealable shroud	<b>M22-PL-PV</b> 216397
Label	<b>M22-XAK11</b> 121085

## 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> 216812	<b>M22-WRLK-W</b> 216823	<b>M22-WLK3-W</b> 216833	<b>M22-WRLK3-W</b> 216843
RMQ Flat Front Design		<b>M30C-FWLK-W</b> 187128	<b>M30C-FWRLK-W</b> 187026	<b>M30C-FWLK3-W</b> 187118	<b>M30C-FWRLK3-W</b> 187134

Additional versions on request

## Contact elements













Category	Function	Front mounting	Base mounting	Slim mounting depth	Adapter
Screw terminals		<b>M22-K01D</b> 262165			Front mounting
		<b>M22-K10</b> 216376	<b>M22-KC10</b> 216380		<b>M22-A</b> 216374
		<b>M22-K01</b> 216378	<b>M22-KC01</b> 216382		<b>M22-A4</b> 279437
Spring-cage terminals		<b>M22-CK10</b> 216384	<b>M22-CKC10</b> 216386	<b>M22-FK10</b> 180792	
		<b>M22-CK01</b> 216385	<b>M22-CKC01</b> 216387	<b>M22-FK01</b> 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	
	<b>M22-LED-W</b> 216557	<b>M22-LED230-W</b> 216563		<b>M22-FLED-W</b> 180795	
	<b>M22-LED-R</b> 216558	<b>M22-LED230-R</b> 216564		<b>M22-FLED-R</b> 180798	
	<b>M22-LED-G</b> 216559	<b>M22-LED230-G</b> 216565		<b>M22-FLED-G</b> 180797	
	<b>M22-LED-B</b> 218057	<b>M22-LED230-B</b> 218059		<b>M22-FLED-B</b> 180796	
				<b>M22-FLED-RG</b> 180799	
				<b>M22-FLED-RGB</b> 180800	
		Screw terminals			
Base mounting		12-30 V AC/DC	85-264 V AC		
	<b>M22-LEDC-W</b> 216560	<b>M22-LEDC230-W</b> 216566			
	<b>M22-LEDC-R</b> 216561	<b>M22-LEDC230-R</b> 216567			
	<b>M22-LEDC-G</b> 216562	<b>M22-LEDC230-G</b> 216568			
	<b>M22-LEDC-B</b> 218058	<b>M22-LEDC230-B</b> 218060			

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

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> 229489	<b>M30C-FR1K</b> 187029	<b>M22-USB</b> 147539	<b>M30C-FUSB</b> 187082
4.7	<b>M22-R4K7</b> 229490	<b>M30C-FR4K7</b> 187030	<b>M22-RJ45-SA</b> 107413	<b>M30C-FRJ45</b> 187086
10	<b>M22-R10K</b> 229491	<b>M30C-FR10K</b> 187035		
47	<b>M22-R47K</b> 229492	<b>M30C-FR47K</b> 187031		
100	<b>M22-R100K</b> 229493	<b>M30C-FR100K</b> 187032		
470	<b>M22-R470K</b> 229494	<b>M30C-FR470K</b> 187033		
	<b>M22-INC-SWD</b>	<b>M30C-FINC-SWD</b> 187079		
	<b>M22-INC-SWD-INC</b>	<b>M30C-FINC-SWD-INC</b> 188245		

Additional versions on request

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