

1.5

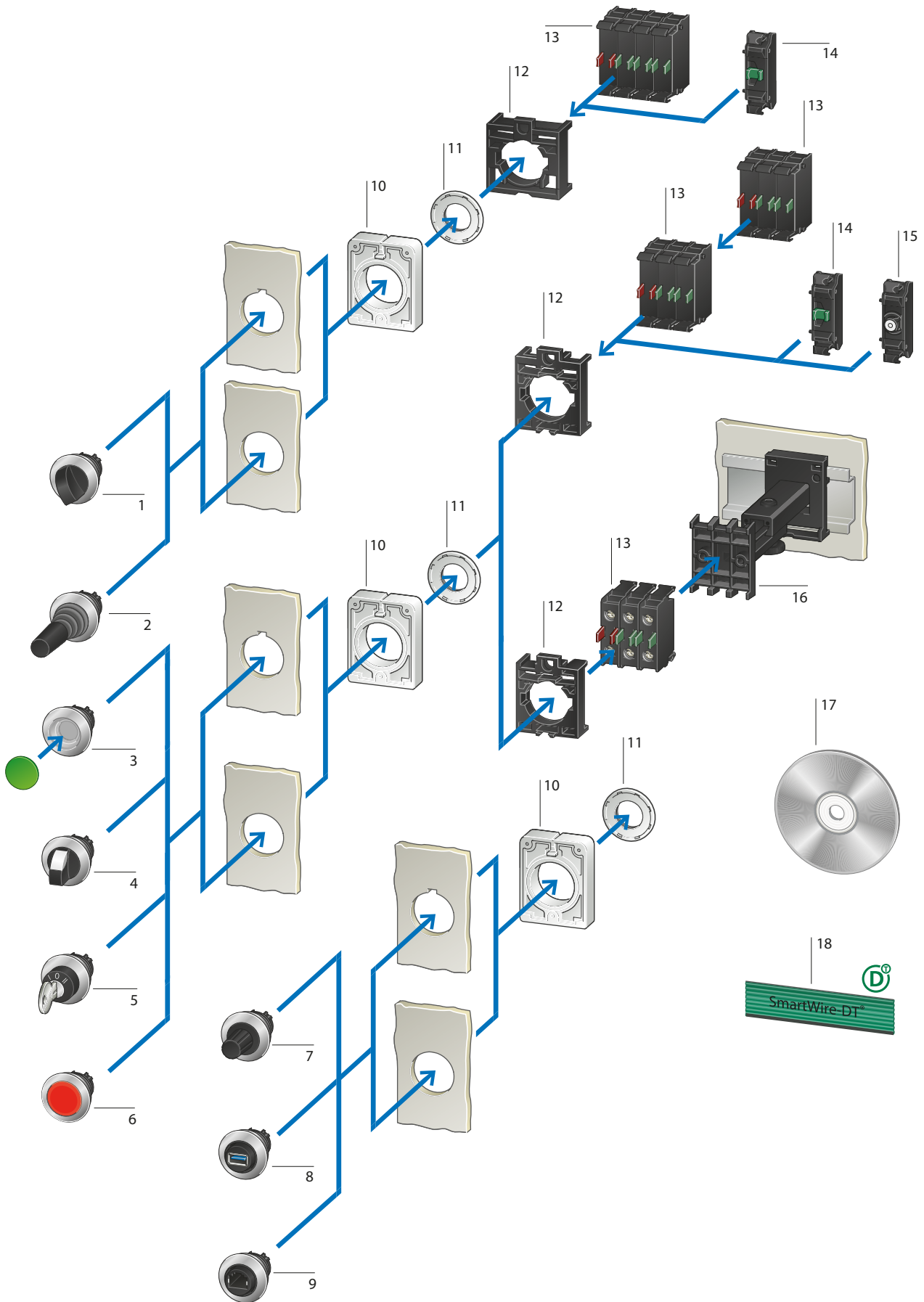
RMQ-Titan pilot devices

M30 – Flat Front – System overview

Moeller series

1





























System overview



<p>M30 4-way selector switches 1</p> <p>4 positions With rotary head or thumb-grip 0-1-0-2-0-3-0-4 maintained action → Page 41</p> <hr/> <p>M30 joysticks 2</p> <p>2 or 4 positions → Page 44</p> <hr/> <p>M30 pushbuttons 3</p> <p>Momentary and maintained Flush Colors: white, green, red, yellow, blue, black Illuminated pushbutton actuators Colors: white, green, red, yellow, blue, orange → Page 40</p> <hr/> <p>M30 selector switches 4</p> <p>2 and 3 positions With rotary head, thumb-grip Programmable maintained/momentary action Illuminated selector switches with transparent thumb-grip Colors: white, green, red, yellow, blue → Page 41</p> <hr/> <p>M30 key-operated buttons 5</p> <p>For individual lock mechanisms 2 or 3 positions Programmable momentary/maintained action and key withdraw Suitable for master key systems → Page 42</p> <hr/> <p>M30 indicator lights 6</p> <p>Colors: white, green, red, yellow, blue, orange → Page 44</p> <hr/> <p>SmartWire-DT encoders, M30 potentiometers 7</p> <p>Resistances of 1 kΩ - 1 MΩ 3 individual connections → Page 47</p>	<p>M30 panel mount connectors 8</p> <p>USB 3.0 → Page 71</p> <hr/> <p>M30 panel mount connectors 9</p> <p>RJ45 → Page 71</p> <hr/> <p>RMQ-AFX 10</p> <p>Anti-rotation tab Included with the equipment supplied with M30 front elements</p> <hr/> <p>Threaded rings 11</p> <p>→ Page 70</p> <hr/> <p>Mounting adapters 12</p> <p>For flush mounting For contact and LED elements → Page 48</p> <hr/> <p>Contact elements 13</p> <p>N/C and N/O Universal contacts suitable for use with electronic devices Safety function implemented with positive opening as defined in IEC/EN 60947-5-1 Max. 2 levels, each with 3 contact elements → Page 48</p> <hr/> <p>Flat Rear contact elements 14</p> <p>Cage Clamp with push-in terminals → Page 53</p> <hr/> <p>Flat Rear LED elements 15</p> <p>Cage Clamp with push-in terminals → Page 53</p>	<p>Telescopic clip 16</p> <p>For adjusting the depth of rear mounting devices in CI and CI-K enclosures and cabinets → Page 69</p> <hr/> <p>Convenient labeling 17</p> <p>A laser inscription with any text and/or symbol can be added to all button plates, indicator lights, and add-on legend plates from the RMQ-Silver range of products. Download: www.eaton.eu/config/rmq Keyword: "Pushbutton Configurator → Label Editor function"</p> <hr/> <p>SmartWire-DT 18</p> <hr/> <p>Product characteristics</p> <ul style="list-style-type: none"> • Clip-fit assembly modular system • Metal bezel, flush • Mounting hole diameter: 30.5 mm • Minimum grid dimension: 40 x 50 mm • Min. degree of protection: IP66 • Up to 6 contacts per mounting location • For switching differing potentials • Approved throughout the world
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Product selection

	Button plate	Part no. Article no.	Std. pack
Pushbuttons			
IP67, IP69K Metal bezel Front dimensions: 36 mm diameter Flush			
Momentary 		M30C-FD-S 182959	1 unit
		M30C-FD-W 182960	
		M30C-FD-R 182918	
		M30C-FD-G 182919	
		M30C-FD-Y 182920	
		M30C-FD-B 182921	
		M30C-FD-GR 182923	
		M30C-FD-S-X0 182961	
		M30C-FD-W-X1 182962	
		M30C-FD-W-X11 182963	
		M30C-FD-R-X0 182939	
		M30C-FD-G-X1 182956	
		M30C-FD-B-X217 182967	
		M30C-FD-GR-X66 182964	
Momentary 	Without button plate	M30C-FD-X 182922	1 unit
Maintained¹⁾ 		M30C-FDR-S 182942	1 unit
		M30C-FDR-W 182943	
		M30C-FDR-R 182944	
		M30C-FDR-G 182945	
		M30C-FDR-Y 182946	
		M30C-FDR-B 182947	
		M30C-FDR-S-X0 182937	
		M30C-FDR-W-X1 182938	
		M30C-FDR-R-X0 182936	
		M30C-FDR-G-X1 182931	
Maintained¹⁾ 	Without button plate	M30C-FDR-X 182948	1 unit

Notes








¹⁾ Maintained/momentary action can be changed on device

Action:	Button plate	Part no.	Std. pack	Ordering notes
↳ = Momentary (MO)		Article no.		
└ = Maintained (MA)				







Selector switches

IP64
 Metal bezel
 Front dimensions: 36 mm diameter
 Maintained/momentary action can be changed with M22-XC-Y configuration adapters







2 positions

With rotary head 	↳ 40°		M30C-FW 187087	1 unit	
	└ 60°		M30C-FWR 187088		
	└ 60°	AUTO HAND 	M30C-FWR-X91 187113		
	└ 60°		M30C-FWR-X92 187114		
	└ 60°	Customized inscription available	M30C-FWR-* 187105		* = With customized Label Editor inscription → Page 74
With thumb-grip 	↳ 40°		M30C-FWK 187103	1 unit	
	└ 60°		M30C-FWRK 187109		
With thumb-grip 	✓ 60°		M30C-FWKV 187102	1 unit	

3 positions¹⁾

With rotary head 	40° ↙↘ 40°		M30C-FW3 187089	1 unit	
	60° ↓ 60°		M30C-FWR3 187090		
	60° ↓ 60°		M30C-FWR3-X7 187107		
	60° ↓ 60°		M30C-FWR3-X94 187108		
	60° ↓ 60°	Customized inscription available	M30C-FWR3-* 187106		* = With customized Label Editor inscription → Page 74
With thumb-grip 	40° ↙↘ 40°		M30C-FWK3 187104	1 unit	
	60° ↓ 60°		M30C-FWRK3 187110		
	Selectable		M30C-FWRK3-* 187111		* = MAMO (for 60° ↓ 40°) or MOMA (for 40° ↙↘ 60°)

4 positions^{2), 3)}

With rotary head 			M30C-FWR4 187091	1 unit	
With thumb-grip 			M30C-FWRK4 187112	1 unit	

- Notes**
- ¹⁾ With plunger bridge for middle contact
 - ²⁾ Not compatible with configuration adapters
 - ³⁾ Use M22-A4 mounting adapter → Page 69

Action:	Lock mechanism	Key withdrawable at position	Information about equipment supplied	Part no. Article no.	Std. pack
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↳ = Momentary (M0)
 ↳ = Maintained (MA)

Key-operated buttons for individual lock mechanisms

IP64
 Metal bezel
 Front dimensions: 36 mm diameter
 Maintained/momentary action can be changed with M22-XC-Y configuration adapters
 Key withdraw can be changed with M22-XC-... configuration adapters



2 positions



↳ 40°		0	-	-	With 1 key	M30C-FWS 187068	1 unit
↳ 60°		0	-	I		M30C-FWRS 187092	
↳ 60°		0	-	-		M30C-FWRS-A1 187047	
↳ 60°		I	-	II		M30C-FWRS-X95 187067	
↳ 40°	Selectable	0	-	-		M30C-FWS-MS* 187072	
↳ 60°	Selectable	0	-	I		M30C-FWRS-MS* 187048	
↳ 40°	MS2	0	-	-		M30C-FWS-MS2 187073	
↳ 40°	MS3	0	-	-		M30C-FWS-MS3 187074	
↳ 60°	MS3	0	-	I		M30C-FWRS-MS3 187053	
↳ 60°	MS4	0	-	I		M30C-FWRS-MS4 187055	
↳ 60°	MS5	0	-	I		M30C-FWRS-MS5 187057	
↳ 40°	MS5	0	-	-		M30C-FWS-MS5 187075	
↳ 60°	MS6	0	-	I		M30C-FWRS-MS6 187059	
↳ 60°	MS7	0	-	I		M30C-FWRS-MS7 187060	
↳ 60°	MS8	0	-	I		M30C-FWRS-MS8 187061	
↳ 60°	MS10	0	-	I		M30C-FWRS-MS10 187051	
↳ 60°	Selectable	0	-	-		M30C-FWRS-MS*-A1 187049	
↳ 60°	MS3	0	-	-		M30C-FWRS-MS3-A1 187054	
↳ 60°	MS4	0	-	-		M30C-FWRS-MS4-A1 187056	
↳ 60°	MS5	0	-	-		M30C-FWRS-MS5-A1 187058	
↳ 60°	MS10	0	-	-		M30C-FWRS-MS10-A1 187052	
↳ 60°	Selectable	-	-	I		M30C-FWRS-MS*-A21-* 187050	
↳ 60°	Ronis 455	0	-	I	With 2 keys	M30C-FWRS-RS 187062	1 unit
↳ 60°	Ronis 455	0	-	-		M30C-FWRS-RS-A1 187063	













Action:	Lock mechanism	Key withdrawable at position	Information about equipment supplied	Part no. Article no.	Std. pack
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 = Momentary (M0)
 = Maintained (MA)

Key-operated buttons for individual lock mechanisms

3 positions

	40°  40°		0	-	-	With 1 key	M30C-FWS3 187069	1 unit
	40°  40°	Selectable	0	-	-		M30C-FWS3-MS* 187070	
	60°  60°		0	I	II		M30C-FWRS3 187094	
	60°  60°	Selectable	-	Selectable	-		M30C-FWRS3-MS*-A* 187096	
	60°  60°		-	Selectable	-		M30C-FWRS3-A* 187095	
	60°  60°	MS3	0	-	II		M30C-FWRS3-MS3 187097	
	60°  60°	Ronis 455	0	I	II	With 2 keys	M30C-FWRS3-RS 187098	1 unit
	60°  60°	Ronis 455	0	-	-		M30C-FWRS3-RS-A1 187099	





2 or 3 positions

	Selectable		-	-	-	With 1 key	M30C-FWRS*-MS*-* 187093	1 unit
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Key-operated buttons for master key systems

Metal bezel
 IP64
 Front dimensions: 36 mm diameter
 To order, use form MZ047002ZU (formerly FO276)
 → Data sheet in online catalog
 Delivery will take 4 to 6 weeks after the order is received at the factory









2 positions

	 40°		0	-	-	With 2 keys	M30C-FWS-SA(*)-* 187076	1 unit
	 60°		0	-	-		M30C-FWRS-SA(*)-* 187064	
	 60°		0	-	I		M30C-FWRS-SA(*)-A8 187066	

3 positions

	40°  40°		0	-	-	With 2 keys	M30C-FWS3-SA(*)-* 187071	1 unit
	60°  60°		0	-	-		M30C-FWRS3-SA(*)-* 187100	
	60°  60°		0	I	II		M30C-FWRS3-SA(*)-A9 187101	

Notes

MS*: * = MS2, ..., MS20; (enter lock mechanism number in the part no.)
 A*: * = 1, action:  , withdrawable in position 0
 * = 2, action:  , withdrawable in positions I, 0
 * = 3, action:  , withdrawable in positions 0, II
 * = 4, action:  , withdrawable in positions I, 0
 * = 5, action:  , withdrawable in position 0
 * = 6, action:  , withdrawable in positions 0, II
 * = 7, action:  , withdrawable in position 0
 * = 10, action:  , withdrawable in positions I, II (not for item M30C-FWRS3-A*)
 -*: * = Customized inscription with Label Editor; replace * with the automatically assigned filename (→ Page 74) or "blank" if no inscription is required
 WRS*: 2 or 3 positions (action and key withdraw as M22-WRS or M22-WRS3)

Action:

↳ = Momentary (MO)

└ = Maintained (MA)

Part no.

Article no.

Std. pack



Joysticks

With one operating point per operating direction
 With metal shaft
 IP66
 Metal bezel
 Front dimensions: 36 mm diameter




























2 positions	—	M30C-FWRJS2H 187078	1 unit
2 positions		M30C-FWRJS2V 187065	
4 positions	↕	M30C-FWJS4 187077	



Indicator lights

IP67
 Metal bezel
 Front dimensions: 36 mm diameter

	Lens	Part no. Article no.	Std. pack
	○	M30C-FL-W 183287	1 unit
	●	M30C-FL-R 183282	
	●	M30C-FL-G 183283	
	●	M30C-FL-Y 183285	
	●	M30C-FL-B 183284	
	●	M30C-FL-A 183286	
* = With customized Label Editor inscription → Page 74	○	M30C-FL-W-* 183293	
	●	M30C-FL-R-* 183288	
	●	M30C-FL-G-* 183289	
	●	M30C-FL-Y-* 183291	
	●	M30C-FL-B-* 183290	
	●	M30C-FL-A-* 183292	

Button plate	Part no. Article no.	Std. pack
Illuminated pushbutton actuators		
IP67, IP69K Metal bezel Front dimensions: 36 mm diameter Flush		
Momentary 	 M30C-FDL-W 182925	1 unit
	 M30C-FDL-R 182926	
	 M30C-FDL-G 182927	
	 M30C-FDL-Y 182928	
	 M30C-FDL-B 182940	
	 M30C-FDL-A 182924	
	 M30C-FDL-W-X0 182929	
	 M30C-FDL-W-X1 182930	
	 M30C-FDL-W-X100 182966	
	 M30C-FDL-R-X0 182958	
	 M30C-FDL-G-X1 182957	
	 M30C-FDL-G-X32 182968	
	 M30C-FDL-Y-X162 182965	
Momentary 	Without button plate M30C-FDL-X 182941	1 unit
Maintained¹⁾ 	 M30C-FDRL-W 182950	1 unit
	 M30C-FDRL-R 182951	
	 M30C-FDRL-G 182952	
	 M30C-FDRL-Y 182953	
	 M30C-FDRL-B 182954	
	 M30C-FDRL-A 182949	
	 M30C-FDRL-W-X0 182934	
	 M30C-FDRL-W-X1 182935	
	 M30C-FDRL-R-X0 182933	
	 M30C-FDRL-G-X1 182932	
Maintained¹⁾ 	Without button plate M30C-FDRL-X 182955	1 unit

Notes ¹⁾ Maintained/momentary action can be changed on device

M30 – Illuminated selector switches (Flat Front)

1

Action:	Thumb-grip	Part no. Article no.	Std. pack
↘	= Momentary (MO)		
↙	= Maintained (MA)		

Illuminated selector switches

IP64
With thumb-grip
Metal bezel
Front dimensions: 36 mm diameter
Maintained/momentary action can be changed with M22-XC-Y configuration adapters



2 positions			
↘ 40°	○	M30C-FWLK-W 187128	1 unit
↙ 60°	○	M30C-FWRLK-W 187026	
↘ 40°	●	M30C-FWLK-R 187122	
↙ 60°	●	M30C-FWRLK-R 187025	
↘ 40°	●	M30C-FWLK-G 187121	
↙ 60°	●	M30C-FWRLK-G 187024	
↘ 40°	●	M30C-FWLK-Y 187129	
↙ 60°	●	M30C-FWRLK-Y 187027	
↘ 40°	●	M30C-FWLK-B 187120	
↙ 60°	●	M30C-FWRLK-B 187023	



2 positions (V configuration)			
∨ 60°	○	M30C-FWLKV-W 187126	1 unit
∨ 60°	●	M30C-FWLKV-R 187125	
∨ 60°	●	M30C-FWLKV-G 187124	
∨ 60°	●	M30C-FWLKV-Y 187127	
∨ 60°	●	M30C-FWLKV-B 187123	



3 positions			
40° ↘ ↙ 40°	○	M30C-FWLK3-W 187118	1 unit
60° ↘ ↙ 60°	○	M30C-FWRLK3-W 187134	
40° ↘ ↙ 40°	●	M30C-FWLK3-R 187117	
60° ↘ ↙ 60°	●	M30C-FWRLK3-R 187133	
40° ↘ ↙ 40°	●	M30C-FWLK3-G 187116	
60° ↘ ↙ 60°	●	M30C-FWRLK3-G 187132	
40° ↘ ↙ 40°	●	M30C-FWLK3-Y 187119	
60° ↘ ↙ 60°	●	M30C-FWRLK3-Y 187022	
40° ↘ ↙ 40°	●	M30C-FWLK3-B 187115	
60° ↘ ↙ 60°	●	M30C-FWRLK3-B 187131	
Selectable	Selectable	M30C-FWRLK3-*/#*¹⁾ 187130	

Notes ¹⁾ */: * = MAMO (for 60° ↘ ↙ 40°) or MOMA (for 40° ↘ ↙ 60°)

/#: * = B (blue), G (green), R (red), B (black), W (white), Y (yellow)

Resistance	Scale/inscription	Contact sequence	Part no. Article no.	Std. pack
R				
kΩ				



Potentiometers, IP66

3 individual screw connections
Resistance accuracy: ±10% (linear)
Metal bezel
Rated power P = 0.5 W

1	Standard scale/inscription		M30C-FR1K 187029	1 unit
4.7			M30C-FR4K7 187030	
10			M30C-FR10K 187035	
47			M30C-FR47K 187031	
100			M30C-FR100K 187032	
470			M30C-FR470K 187033	
2.2			M30C-FR2K2 187034	
22			M30C-FR22K 187036	
1000			M30C-FR1M 187037	
1	Without scale/inscription		M30C-FR1K-BLANK 187038	
2.2			M30C-FR2K2-BLANK 187039	
4.7			M30C-FR4K7-BLANK 187040	
10			M30C-FR10K-BLANK 187041	
22			M30C-FR22K-BLANK 187042	
47			M30C-FR47K-BLANK 187043	
100			M30C-FR100K-BLANK 187044	
470			M30C-FR470K-BLANK 187045	
1000			M30C-FR1M-BLANK 187046	
Selectable ¹⁾	Selectable ²⁾		M30C-FR*.* 187081	

SmartWire-DT potentiometers, IP65

Only in conjunction with M22-SWD-R function element



-	Silver bezel M22		M22-R-SWD 179292	1 unit
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-	Metal bezel Flat Front		M30C-FR-SWD 187080	1 unit
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SmartWire-DT encoders, IP65

With actuation function
Only in conjunction with M22-SWD-INC function element



-	Silver bezel M22	-	M22-INC-SWD 179981	1 unit
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-	Metal bezel Flat Front	-	M30C-FINC-SWD 187079	1 unit
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Notes

¹⁾ Wildcard: Available resistance values:
1K = 1 kΩ, 2K2 = 2.2 kΩ, 4K7 = 4.7 kΩ, 10K = 10 kΩ,
22K = 22 kΩ, 47K = 47 kΩ, 100K = 100 kΩ, 470K = 470 kΩ, 1M = 1 MΩ
²⁾ Wildcard: Standard scale/inscription: X1000 Without scale/inscription: "-"

Technical data

				Contact elements		Double contact elements	LED elements	
				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)				IP20	IP20	IP20	IP20	IP20
Climatic proofing				Damp heat, constant as defined in IEC 60068-2-78 Damp heat, cyclic as defined in IEC 60068-2-30				
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 as defined in IEC 60068-2-27 Shock duration: 11 ms, half sine shock				g	30	50	30	50
Terminal capacities								
Solid	mm ²		0.75 - 2.5	2 x 1 (0.2 - 1.5) 2 x 1 (0.75 - 1.5) ¹⁾	0.5 - 1.5	0.75 - 2.5	1 x 1 (0.2 - 1.5) 1 x 1 (0.75 - 1.5) ¹⁾	
Stranded	mm ²		0.5 - 2.5	–	0.5 - 1.5	0.5 - 2.5	1 x 1 (0.2 - 1.5)	
Flexible with ferrule	mm ²		0.5 - 1.5	2 x 1 (0.25 - 1) ²⁾	0.5 - 1.5	–	1 x 1 (0.25 - 1) ²⁾	
Contacts								
Rated impulse withstand 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	Failure rate	< 10 ⁻⁷ (i.e., one failure every 10 ⁷ operations)	–	–	–	–	
At 5 V DC/1 mA	H _F	Failure rate	< 5 x 10 ⁻⁶ (i.e., one failure every 5 x 10 ⁶ operations)	–	–	–	–	
Max. short-circuit protective device								
Fuseless		Part no.	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; please enquire for others				

(Illuminated) pushbuttons, mushroom pushbuttons	Double actuator pushbuttons	(Illuminated) selector switches	Joysticks	Key-operated buttons	Indicator lights Acoustic devices Potentiometers	Controlled stop/ emergency stop
Momentary Maintained						

IEC/EN 60947-5-1		IEC/EN 60947-5-1	IEC/EN 60947-5-1	IEC/EN 60947-5-1	IEC/EN 60947-5-1	IEC/EN 60947-5-1	IEC/EN 60947-5-5
5	1	0.2	0.1	0.1	0.1	–	0.1
≤ 3600	≤ 1800	≤ 3600	≤ 2000	≤ 2000	≤ 100	–	≤ 600
5	5	5	–	5	–	–	50
–	–	–	0.3	–	0.5	–	–
IP67, IP69K	IP67, IP69K	IP66	M22: IP66 M30: IP64	IP66	M22: IP66 M30: IP64	Indicator lights: IP67 Acoustic devices: IP40 Potentiometers: IP66	IP67, IP69K
Damp heat, constant as defined in IEC 60068-2-78 Damp heat, cyclic as defined in IEC 60068-2-30							
-25 - +70	-25 - +70	-25 - +70	-25 - +70	-25 - +70	-25 - +70	-25 - +70	-25 - +70
Any	Any	Any	Any	Any	Any	Any	Any
M22: 30 M30: 15	M22: 30 M30: 15	30	M22: 30 M30: 15	M22: 30 M30: 15	M22: 30 M30: 15	M22: 30 M30: –	50
–	–	–	–	–	–	0.5 - 1.5	–
–	–	–	–	–	–	0.5 - 1.5	–
–	–	–	–	–	–	–	–
–	–	–	–	–	–	4000	–
–	–	–	–	–	–	250	–
–	–	–	–	–	–	III/3	–
–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–
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