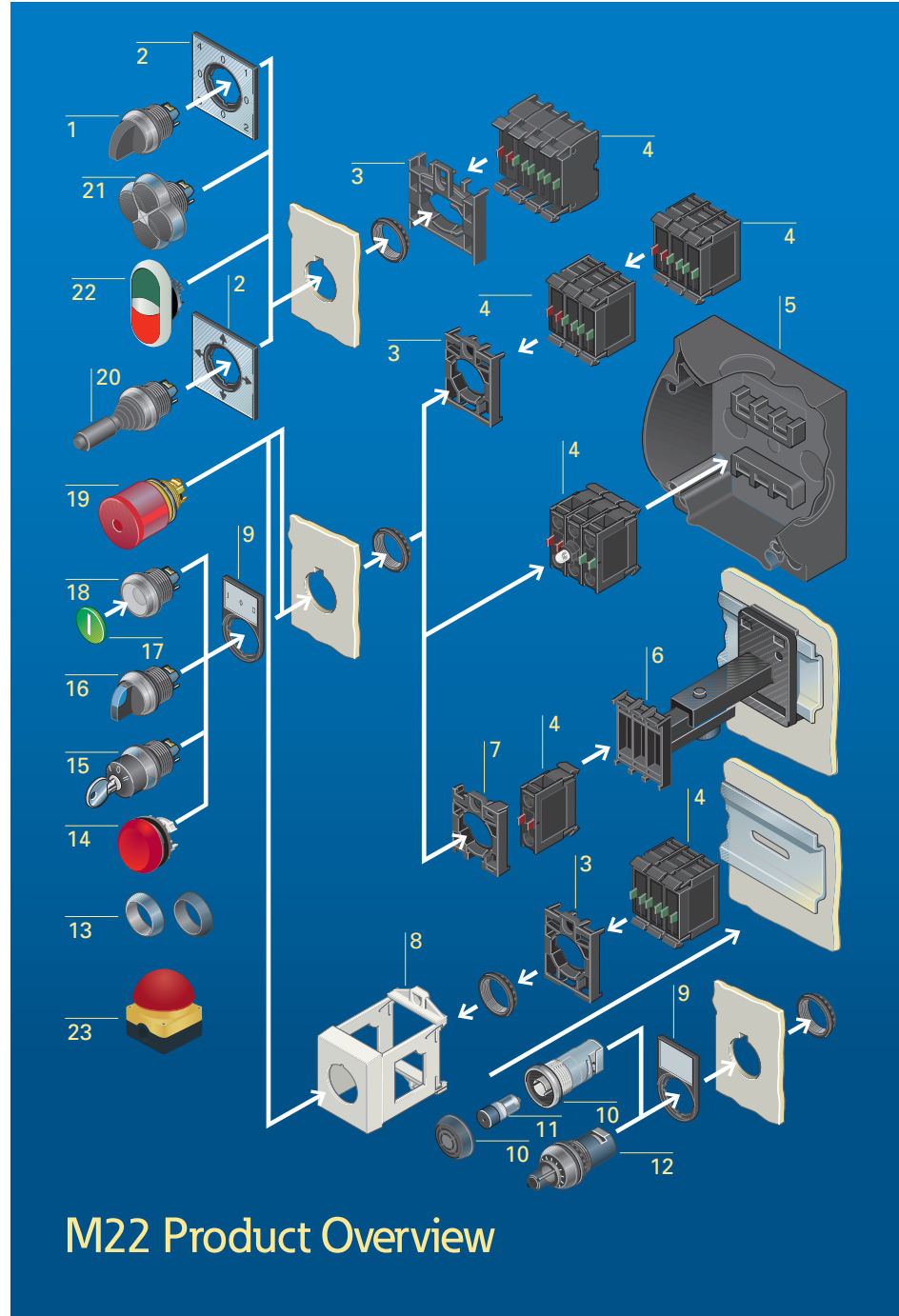


# M22 – Design and Functionality

## The new 22 mm line of pushbuttons



M22 Product Overview

### Global 22.5 mm IEC Pushbuttons

- |   |   |                              |
|---|---|------------------------------|
| 1. Four-position selector switch                      | 9. Legend plate                         | 17. Button plate/button lens |
| 2. Legend plate for four-way selector switch/joystick | 10. Acoustic indicator                  | 18. Buttonless operator      |
| 3. Mounting adapter                                   | 11. Buzzer                              | 19. Emergency-stop operator  |
| 4. Contact block                                      | 12. Potentiometer                       | 20. Joystick                 |
| 5. Enclosure  | 13. Bezel, available in silver or black | 21. Four-way pushbutton      |
| 6. Telescopic clip                                    | 14. Indicating light                    | 22. Double-pushbutton        |
| 7. Centering adapter                                  | 15. Key operated selector switch        | 23. Palm switch              |
| 8. DIN-rail mounting adapter                          | 16. Selector switch                     |                              |

Pushbutton operators, flush				Pushbutton operators, extended				Mushroom-head operators				Selector switches				Key-operated selector switches				Illuminated pushbutton operators				Indicating light operators
Type 4X, 13 IP 67, 69K Black bezel: M22S...				Type 4X, 13 IP 67, 69K Black bezel: M22S...				Type 4X, 13 IP 67, 69K Black bezel: M22S...				Type 4X, 13 IP 66 Black bezel: M22S... ↳ = Main-tained ↳ = Momentary				Type 4X, 13 IP 66 Black bezel: M22S...				Type 4X, 13 IP 67, 69K Black bezel: M22S...				Type 4X, 13 IP 67, 69K
Button plate	Operator Momentary	Operator Maintained	Operator Momentary	Operator Maintained	Button plate	Mushroom	Momentary	Maintained	Function	Rotary 2-Position	Knob 2-Position	MS1 lock mechanism	MS2-8 lock mechanism	Button lens	Operators flush, momentary	Operators flush, maintained	Operators flush, momentary	Operators flush, maintained	Flush					
●	M22-D-S	M22-DR-S	M22-DH-S	M22-DRH-S	●	●	M22-DP-S	M22-DRP-S	▶	M22-W	M22-WK	M22-WS	M22-WS-MS_	○	M22-DL-W	M22-DRL-W	M22-DLH-W	M22-DRLH-W	M22-L-W					
○	M22-D-W	M22-DR-W	M22-DH-W	M22-DRH-W	●	●	M22-DP-R	M22-DRP-R	▼	M22-WR	M22-WRK	M22-WRS	M22-WRS-MS_	●	M22-DL-R	M22-DRL-R	M22-DLH-R	M22-DRLH-R	M22-L-R					
●	M22-D-R	M22-DR-R	M22-DH-R	M22-DRH-R	●	●	M22-DP-G	M22-DRP-G	▽	M22-WKV				●	M22-DL-G	M22-DRL-G	M22-DLH-G	M22-DRLH-G	M22-L-G					
●	M22-D-G	M22-DR-G	M22-DH-G	M22-DRH-G	●	●	M22-DP-Y	M22-DRP-Y	∇	M22-W3		M22-WS3		●	M22-DL-Y	M22-DRL-Y	M22-DLH-Y	M22-DRLH-Y	M22-L-Y					
●	M22-D-Y	M22-DR-Y	M22-DH-Y	M22-DRH-Y	without	●	M22-DP-S-X	M22-DRP-S-X	↔	M22-WR3		M22-WRS3		●	M22-DL-B	M22-DRL-B	M22-DLH-B	M22-DRLH-B	M22-L-B					
●	M22-D-B	M22-DR-B	M22-DH-B	M22-DRH-B	without	●	M22-DP-R-X	M22-DRP-R-X	↕	M22-WR3-1				without	M22-DL-X	M22-DRL-X	M22-DLH-X	M22-DRLH-X	M22-L-X					
●	M22-D-R-X	M22-DR-R-X	M22-DH-R-X	M22-DRH-R-X	without	●	M22-DP-G-X	M22-DRP-G-X	↕	M22-WR3-2														
●	M22-D-G-X1	M22-DR-G-X1	M22-DH-G-X1	M22-DRH-G-X1	without	●	M22-DP-Y-X	M22-DRP-Y-X	↕	M22-WR4														
without	M22-D-X	M22-DR-X	M22-D-X	M22-DR-X	without	●			⚡	M22-WR4														
without button plate with guard ring	M22-DG-X																							

Note: For other laser etched plates and lenses, order buttonless operator and plate separately. For example: M22-D-X (buttonless momentary pushbutton); M22-XD-G-X1 (green, flush, ①)



Double pushbutton				Illuminated selector switches				Joystick				Legend plates				Four-way pushbutton			
Type 4X, 13 IP 67, 69K Black bezel: M22S...				Type 4X, 13 IP 66 Black bezel: M22S...				2 and 4-position IP 66 Black bezel: M22S...				For use with joysticks, four-way push-buttons, and 4-position selector switches				IP 66 Black bezel: M22S...			
Button plates	Buttons and Center Light Extended	Knob	2-position momentary	2-position maintained	3-position momentary	3-position maintained	2-position (V-position, 60°) maintained	Function	Catalog Number	Version	Catalog Number	Function	Inscription	Color	Catalog Number				
■	M22-DDL-GR-X1-X0	○	M22-WLK-W	M22-WRLK-W	M22-WLK3-W	M22-WRLK3-W	M22-WLKV-W	Momentary	M22-WJ2H	□	M22-WJ2H	All buttons Momentary	Directional arrows	Black	M22-D4-S-X7				
■	M22-DDL-WS-X1-X0	●	M22-WLK-R	M22-WRLK-R	M22-WLK3-R	M22-WRLK3-R	M22-WLKV-R	2-position horizontal	M22-WJ2V	□	M22-WJ2V	All buttons Momentary	None	Black	M22-D4-S				
■	M22-DDL-GR-GB1-GB0	●	M22-WLK-G	M22-WRLK-G	M22-WLK3-G	M22-WRLK3-G	M22-WLKV-G	2-position vertical	M22-WJ4	□	M22-WJ4								
■	M22-DDL-WS-GB1-GB0	●	M22-WLK-Y	M22-WRLK-Y	M22-WLK3-Y	M22-WRLK3-Y	M22-WLKV-Y	4-position		□									
■	M22-DDL-S-X7-X7	●	M22-WLK-B	M22-WRLK-B	M22-WLK3-B	M22-WRLK3-B	M22-WLKV-B	Maintained	M22-WRJ2H	□	M22-WRJ2H								
■	M22-DDL-S-X4-X5							2-position horizontal	M22-WRJ2V	□	M22-WRJ2V								
■	M22-DDL-GR							2-position vertical	M22-WRJ4	□	M22-WRJ4								
■	M22-DDL-WS							4-position		□									

Contact blocks			Mounting adapters (supplied with operators)				Light units				Enclosures				Emergency-stop operators				Palm switches				Emergency-stop palm switches							
IP 20 ↳ Positive opening safety function to IEC / EN 60 947-5-1			Note				IP 20				Type 4X, 13 IP 67				Type 4X, 13 IP 54				Type 4X, 13 IP 55, 40				Type 4X, 13 IP 67, 69K				Type 4X, 13 IP 67, 69K			
Function	Screw terminal	Spring Cage	Front mounted	Base mounted	Front mounted	Base mounted	Number of elements	Surface mounting enclosures	Flush mounting panels	Shrouds	Function	Compliant with ISO/EN 13850/EN418	Mushroom head	Function	Momentary	Mushroom head	Function	Momentary												
1NO	M22-K10	M22-CK10	Front mounted	M22-A4	max. 3 contact blocks	max. 3 contact blocks	1 ●	M22-IY1-PG	M22-EY1	M22-H1	Non-illuminated	M22-PV <sup>2)</sup>	■	1NO-1NC	FAK-S-KC11-I	■	1NC	FAK-R-V-KC01-IY												
1NC	M22-K01	M22-CK01			max. 4 contact blocks (only for 4-way pushbutton and Joystick)	max. 3 contact blocks	1 ○	M22-I1-PG	M22-E1	M22-H1	Non-illuminated	M22S-PV <sup>2)</sup>	■	1NO-1NC	FAK-R-KC11-I	■	1NO-1NC	FAK-R-V-KC11-IY												
1NC	M22-K01D	M22-CK01D					2 ○	M22-I2-PG	M22-E2	M22-H2	illuminated	M22-PVL <sup>2)</sup>	■	2NC		■	2NC	FAK-R-V-KC02-IY												
1NO-1NC		M22-CK11					3 ○	M22-I3-PG	M22-E3	M22-H3	illuminated	M22S-PVL <sup>2)</sup>	■	1NO-2NC		■	1NO-2NC	FAK-R-V-KC12-IY												
2NC		M22-CK02					4 ○	M22-I4-PG	M22-E4	M22-H4	With key release MS1 individual lock mechanism	M22-PVS	■																	
2NO		M22-CK20			Base mounted	Built into the enclosure	max. 3 contact blocks	5 ○	M22-I5-PG	M22-E5	M22-H5	With key release MS2-8 individual lock mechanism	M22-PVS-MS_	■																
1NO	M22-KC10	M22-CKC10				6 ○	M22-I6-PG	M22-E6	M22-H6																					
1NC	M22-KC01	M22-CKC01				12 ○	M22-I12 <sup>1)</sup>																							

<sup>1)</sup> Metric only. Will be introduced late 2009. <sup>2)</sup> Pull to release, <sup>3)</sup> Twist to release

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