

22.5 mm Modular Pushbuttons—M22



**Product Description**

Eaton’s M22 industrial heavy-duty pushbutton line offers a wide array of functional, attractive and ergonomically designed illuminated and non-illuminated pushbuttons, selector switches, push-pulls, alternate action and twist-to-release operators. The complete illuminated line is only offered in LED light units to ensure high-quality brightness and up to 100,000 hours of LED illumination. M22 operators are available with either a silver or black nylon colored or chrome metal bezel. The space-saving modular construction of the M22 line makes on-the-job assembly fast and simplifies the stocking of both components and complete devices.

**NEW**

Eaton has expanded M22 pilot devices with a metal bezel option. The new M22M pushbutton is an elegant chrome metal bezel that is attractive, durable and rugged for heavy-duty environments. M22M devices are configurable and complement components within the M22 line.

**Highly Modular and Versatile Line**

- Field convertible functions (pushbuttons and selector switches), maintained to momentary
- Customizable laser engraving capabilities

**LED Indicators**

- 100,000 hours of life in high-vibration environments
- Lenses specifically designed for LED illumination

**Rugged Design**

- Most pushbutton operators and contact blocks exceed 5 million mechanical operations
- All components have IP66 rating, and some carry IP67 and IP69K for washdown environment; see **Page V7-T1-119** for further technical data

**Innovative Technologies**

- ASi communicating devices
- Palm switches

**Contents**

**Description**

**Page**

22.5 mm Modular Pushbuttons—M22	
Product Selection Guide . . . . .	<b>V7-T1-48</b>
Accessories . . . . .	<b>V7-T1-111</b>
Coding Adapter Guide . . . . .	<b>V7-T1-118</b>
Technical Data and Specifications . . . . .	<b>V7-T1-119</b>
Dimensions . . . . .	<b>V7-T1-123</b>
Symbols Library. . . . .	<b>V7-T1-129</b>



**Standards and Certifications**

All operators and components are IEC/EN 60947 VDE 0660.

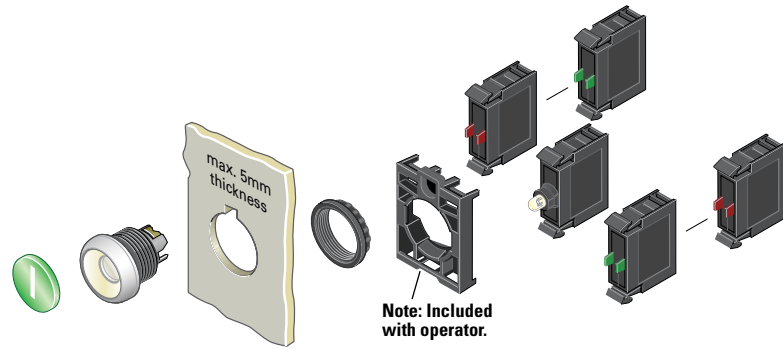
All operators carry an IP66 rating with some rated for washdown environment with IP67 and IP69K.

All pushbuttons, emergency-stops, indicating lights, potentiometers and selector switches carry NEMA 4X, 13.

Marine classification societies: Bureau Veritas (BV), Germanischer Lloyd (GL), and Lloyd’s Register of Shipping (LR) approved.



Illuminated Pushbuttons, Flush, Momentary



Components

M22-XDL-G



Button Lenses ①

Color	Inscription	Catalog Number
Red	—	M22-XDL-R ②
	Custom	M22-XDL-R-ETCH ③
	STOP	M22-XDL-R-GB0
	OFF	M22-XDL-R-GB5
	Ⓞ	M22-XDL-R-X0
Green	—	M22-XDL-G ②
	Custom	M22-XDL-G-ETCH ③
	START	M22-XDL-G-GB1
	ON	M22-XDL-G-GB6
	Ⓛ	M22-XDL-G-X1
Blue	—	M22-XDL-B ②
	Custom	M22-XDL-B-ETCH ③
	RESET	M22-XDL-B-GB14
White	Ⓡ	M22-XDL-B-X6
	—	M22-XDL-W ②
Yellow	Custom	M22-XDL-W-ETCH ③
	—	M22-XDL-Y ②
Amber	Custom	M22-XDL-Y-ETCH ③
	—	M22-XDL-A
	Custom	M22-XDL-A-ETCH

M22-LED-W



Light Units ①

Terminal Type	LED Color	Light Unit Voltage	Catalog Number
Screw	White	12–30 Vac/Vdc	M22-LED-W
	Red		M22-LED-R
	Green		M22-LED-G
	Blue		M22-LED-B
Screw	White	85–264 Vac	M22-LED230-W
	Red		M22-LED230-R
	Green		M22-LED230-G
	Blue		M22-LED230-B

M22-K10



Contact Blocks ①

Terminal Type	Contact Configuration ⑤	Catalog Number
Screw	NO	M22-K10
	NO, early-make	M22-K10P
	NC	M22-K01
	NC, late-break	M22-K01D
Spring-cage	NO	M22-CK10
	NC	M22-CK01
	NC, late-break	M22-CK01D
	2NO	M22-CK20
	2NC	M22-CK02
	NO-NC	M22-CK11

M22-DL-X



Buttonless Operator

Silver Bezel Catalog Number ④	Black Bezel Catalog Number ④	Metal Bezel Catalog Number ④
M22-DL-X	M22S-DL-X	M22M-DL-X

M22S-DL-X



M22M-DL-X



M22-DGL-X



Silver Guarded

Silver Bezel Catalog Number ④
M22-DGL-X

Notes

- ① For complete listing of available button lenses, light units and contact blocks, see Accessories, Pages V7-T1-111 to V7-T1-116.
- ② Minimum order quantity of (10).
- ③ When ordering, specify inscription per catalog number suffix from the Symbols Library (see Pages V7-T1-129 to V7-T1-136) into the Order Notes. For example, M22-XDL-R-ETCH; Order Notes: Mark with symbol X91, Line item #\_.
- ④ Includes contact block mounting adapter.
- ⑤ All NC contact blocks are positively driven contact. ⊖

1

#### M22-XDLH-W



#### M22-XDL-G



### Button Lenses

Color	Inscription	Catalog Number Flush	Catalog Number Extended	Color	Inscription	Catalog Number Flush	Catalog Number Extended
White	—	M22-XDL-W	M22-XDLH-W	Blue	Custom	M22-XDL-B-ETCH	M22-XDLH-B-ETCH
Red	—	M22-XDL-R	M22-XDLH-R	Red	STOP	M22-XDL-R-GB0	M22-XDLH-R-GB0
Green	—	M22-XDL-G	M22-XDLH-G	Green	START	M22-XDL-G-GB1	M22-XDLH-G-GB1
Yellow	—	M22-XDL-Y	M22-XDLH-Y	Red	OFF	M22-XDL-R-GB5	M22-XDLH-R-GB5
Blue	—	M22-XDL-B	M22-XDLH-B	Green	ON	M22-XDL-G-GB6	M22-XDLH-G-GB6
White	Custom	M22-XDL-W-ETCH	M22-XDLH-W-ETCH	Blue	RESET	M22-XDL-B-GB14	M22-XDLH-B-GB14
Red	Custom	M22-XDL-R-ETCH	M22-XDLH-R-ETCH	Red	Ⓢ	M22-XDL-R-X0	M22-XDLH-R-X0
Green	Custom	M22-XDL-G-ETCH	M22-XDLH-G-ETCH	Green	Ⓛ	M22-XDL-G-X1	M22-XDLH-G-X1
Yellow	Custom	M22-XDL-Y-ETCH	M22-XDLH-Y-ETCH	Blue	Ⓜ	M22-XDL-B-X6	M22-XDLH-B-X6

### Mounting Adapters

Description	Catalog Number
Contact block mounting adapter	M22-A

#### M22-A



#### M22-A4



Contact block mounting adapter, four-position (for use with four-way pushbuttons, joysticks and four-position selector switches only).	M22-A4
--	--------

#### M22-LS



Allows mounting of M22 pushbuttons to LS-Titan limit switch bodies (for the full LS-Titan catalog section, see PG08301004E).	M22-LS
--	--------

#### M22-K10



### Contact Blocks

Mounting Location	Terminal Type	Contact Configuration ①	Package Qty.	Catalog Number		
Front	Screw	NO	1	M22-K10		
		NO	25	M22-K10-B25		
		NO	100	M22-K10-B100		
		NO, early-make	1	M22-K10P		
		NC	1	M22-K01		
		NC	25	M22-K01-B25		
		NC	100	M22-K01-B100		
		NC, late-break	1	M22-K01D		
		SMCB, NC	1	M22-K01SMC10		
		SMCB, 2NC	1	M22-K02SMC10		
Base		NO	1	M22-KC10		
		NO	25	M22-KC10-B25		
		NO	100	M22-KC10-B100		
		NC	1	M22-KC01		
		NC	25	M22-KC01-B25		
		NC	100	M22-KC01-B100		
		SMCB, NC	1	M22-KC01SMC10		
		SMCB, 2NC	1	M22-KC02SMC10		
		Front	Spring-cage	NO	1	M22-CK10
				NC	1	M22-CK01
NC, late-break	1			M22-CK01D		
2NO ②	1			M22-CK20		
2NC ②	1			M22-CK02		
NO-NC ②	1			M22-CK11		
Base		NO	1	M22-CKC10		
		NC	1	M22-CKC01		

#### Notes

① All NC contact blocks are positively driven contact. Ⓢ

② Not stackable.