22.5 mm Modular Pushbuttons—M22

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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

Standards and Certifications

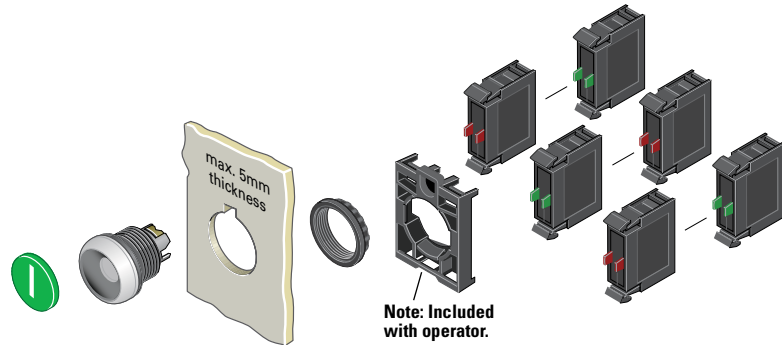All operators and components are IEC/EN 60947 VDE 0660.

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.

Non-Illuminated Pushbuttons, Flush, Momentary

Note: Included with operator.

Components

M22-XD-G

Button Plates [1]

Color	Inscription	Catalog Number
Black	—	**M22-XD-S** [2]
	Custom	**M22-XD-S-ETCH** [3]
	STOP	**M22-XD-S-GB0**
	START	**M22-XD-S-GB1**
	CLOSE	**M22-XD-S-GB2**
	UP	**M22-XD-S-GB3**
	DOWN	**M22-XD-S-GB4**
	OFF	**M22-XD-S-GB5**
	ON	**M22-XD-S-GB6**
	TEST	**M22-XD-S-GB9**
	FORWARD	**M22-XD-S-GB15**
	REVERSE	**M22-XD-S-GB16**
	RAISE	**M22-XD-S-GB17**
	LOWER	**M22-XD-S-GB18**
	◎	**M22-XD-S-X0**
	Ⓘ	**M22-XD-S-X1**
	ⒾⒾ	**M22-XD-S-X2**
	⊕	**M22-XD-S-X4**
	⊖	**M22-XD-S-X5**
	Ⓘ	**M22-XD-S-X7**
Red	—	**M22-XD-R** [2]
	Custom	**M22-XD-R-ETCH** [3]
	STOP	**M22-XD-R-GB0**
	OFF	**M22-XD-R-GB5**
	◎	**M22-XD-R-X0**
Green	—	**M22-XD-G** [2]
	Custom	**M22-XD-G-ETCH** [3]
	START	**M22-XD-G-GB1**
	ON	**M22-XD-G-GB6**
	Ⓘ	**M22-XD-G-X1**
Blue	—	**M22-XD-B** [2]
	Custom	**M22-XD-B-ETCH** [3]
	RESET	**M22-XD-B-GB14**
	Ⓡ	**M22-XD-B-X6**
White	—	**M22-XD-W** [2]
	Custom	**M22-XD-W-ETCH** [3]
	START	**M22-XD-W-GB1**
	Ⓘ	**M22-XD-W-X1**
Yellow	—	**M22-XD-Y** [2]
	Custom	**M22-XD-Y-ETCH** [3]
Black, red, green	—	**M22-XD-SRG**
Black, white, red, green, yellow, blue	—	**M22-XD-SWRGYB**

M22-D-X

M22S-D-X

M22M-D-X

M22-DG-X

Buttonless Operator

Silver Bezel Catalog Number [4]	Black Bezel Catalog Number [4]	Metal Bezel Catalog Number [4]
M22-D-X	**M22S-D-X**	**M22M-D-X**

Silver Guarded

Silver Bezel Catalog Number [4]

M22-DG-X

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**

Notes

[1] For complete listing of available button plates 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-XD-S-ETCH; Order Notes: Mark with symbol X91, Line item #_.

[4] Includes contact block mounting adapter.

[5] All NC contact blocks are positively driven contact. ⊖

Through-the-Door Operators

Product Description

Eaton's M22 through-the-door operators use the same familiar flush pushbutton look with the addition of a cut-to-length rod that allows for a simple reset operator.

Features

- Customizable laser engraving on all buttons
- More than five million mechanical operations
- Pushrod can be cut to length

Protection Type

- IP67, IP69K
- NEMA 4X, 13

Product Selection

Through-the-Door Operators [1]

M22-DZ-B-X6

Complete Devices

Color	Inscription	Catalog Number
Blue	—	**M22-DZ-B**
	RESET	**M22-DZ-B-GB14**
	ⓇR	**M22-DZ-B-X6**
Red	—	**M22-DZ-R**
	◎	**M22-DZ-R-X0**
	STOP	**M22-DZ-R-GB0**

M22-DZ-X

Buttonless Operator

Bezel	Catalog Number
Silver	**M22-DZ-X**
Metal	**M22M-DZ-X**

M22-XD-B

Button Plates [2]

Color	Inscription	Catalog Number
Blue	—	**M22-XD-B** [3]
	RESET	**M22-XD-B-GB14**
	ⓇR	**M22-XD-B-X6**
Red	—	**M22-XD-R** [3]
	◎	**M22-XD-R-X0**
	STOP	**M22-XD-R-GB0**

Bulkhead Interfaces

Product Description

Eaton's M22 bulkhead interfaces are another unique offering in the M22 line. This device allows for a secure connection to any USB or RJ45 connected device within an enclosure or panel. With an IP65 rating when closed, these devices are not only convenient, but robust and reliable.

Features

- Convenient and safe way to make a data connection to inside of the panel without opening the panel door

Protection Type

- IP65 when closed, IP20 when connected

Product Selection

Bulkhead Interfaces

M22-USB-SA

USB Socket [4][5]

Used for USB connection plug IP65 when closed, IP20 when connected.

Bezel	Catalog Number
Silver	**M22-USB-SA**

M22-RJ45-SA

RJ45 Socket [6]

Used for RJ45 Ethernet connection IP65 when closed, IP20 when connected.

Bezel	Catalog Number
Silver	**M22-RJ45-SA**

Notes

[1] The pushrod is 3.24 in long and can be cut to length.
[2] Any combination of plate color and inscription is available.
[3] Minimum order quantity of (10).
[4] USB interface is complete with 2-ft-long USB cable.
[5] USB interface is UL Listed, CSA approved and USB 3.0.
[6] RJ45 interface is an eight-wire connector.