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22.5 mm Modular Pushbuttons—M22

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Drawings Online

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.

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Features

- Field convertible pushbuttons and mushroom operators from maintained to momentary status
- Field convertible selector switches from momentary to maintained operation and vice versa
- LED offering only for all illuminated operators
- Laser engraved pushbuttons, lenses and enclosures
- Heavy-duty construction with a minimum of IP66 and UL NEMA® type 4X / 13 on front of panel operators. Many operators even carry IP67 and IP69K, for the toughest applications
- Silver, black or chrome metal bezel now available
- Snap-lock contact blocks and light units for front or base mounting
- Notched hole mounting with anti-rotation tab and central nut mounting on each operator
- Over 5 million mechanical operations and 1.6 million electrical (reference specification sheet)
- Direct opening action normally closed contacts
- Unique and innovative offerings, such as four-way pushbuttons and USB/RJ45 bulkhead interfaces
- Screw or spring-cage terminals

Benefits

- Modular construction makes assembly fast and simplifies stocking of components and complete devices
- Field convertibility of operator status for pushbuttons and selector switches helps distributors and customers reduce inventory and increase functionality
- LED offering only for improved brightness quality and up to 100,000 hours of operation
- Plastic construction is corrosion resistant. Operators are designed for rugged environments, ideal for washdown applications (reference each operator's IP ratings and IEC/EN 60529 for ingress protection definition)
- Anti-rotation tab saves installation time and prevents operator rotation
- High mechanical and electrical life allows for use in tough and challenging applications
- Laser inscription capabilities allow for high-quality, wear-resistant markings
- All normally closed (NC) contacts are direct opening action, i.e., NC contacts are physically forced open by direct linkage with the pushbutton operator in the unlikely event of contact weld
- Some M22 operators are capable of communication via ASi protocol
- M22 offers USB and RJ45 connections

Product Selection Guide

Pushbuttons

Description	Non-illuminated, flush		Non-illuminated, extended		Illuminated, flush		Illuminated, extended	
Operator	Momentary	Maintained	Momentary	Maintained	Momentary	Maintained	Momentary	Maintained
Product Selection	**Pages V7-T1-53** to **V7-T1-55**	**Pages V7-T1-56, V7-T1-57**	**Pages V7-T1-58, V7-T1-59**	**Pages V7-T1-60, V7-T1-61**	**Pages V7-T1-63** to **V7-T1-65**	**Pages V7-T1-66, V7-T1-67**	**Pages V7-T1-68, V7-T1-69**	**Pages V7-T1-70, V7-T1-71**

Indicating Lights

Description	Flat	Conical
Product Selection	**Pages V7-T1-72, V7-T1-73**	**Pages V7-T1-72, V7-T1-73**

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Emergency Stops

Description	Non-illuminated	Illuminated	Key release	Mechanical indication
Product Selection	**Page V7-T1-75**	**Page V7-T1-75**	**Page V7-T1-76**	**Page V7-T1-76**

Selector Switches

Description	Non-illuminated knob type	Non-illuminated rotary type	Illuminated	Key-operated
Product Selection	**Pages V7-T1-80, V7-T1-81**	**Pages V7-T1-82, V7-T1-83**	**Pages V7-T1-85** to **V7-T1-87**	**Pages V7-T1-88** to **V7-T1-91**

Mushroom Head Pushbuttons

Description	Non-illuminated	Non-illuminated
Operator	Momentary	Maintained
Product Selection	**Pages V7-T1-94, V7-T1-95**	**Pages V7-T1-96, V7-T1-97**

Double Pushbuttons

Description	Extended pushbuttons and center light	Flush top and center light, extended bottom	Flush pushbuttons and center light
Operator	Momentary	Momentary	—
Product Selection	**Page V7-T1-99**	**Page V7-T1-100**	**Page V7-T1-100**

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Four-Way Pushbuttons

Description	Non-interlocked	Interlocked
Operator	Momentary	Maintained
Product Selection	**Page V7-T1-103**	**Page V7-T1-103**

Joysticks

Description	Joysticks
Product Selection	**Page V7-T1-104**

Potentiometers

Description	Potentiometers
Product Selection	**Page V7-T1-106**

Acoustic Devices

Description	Acoustic devices
Product Selection	**Page V7-T1-106**

Through-the-Door Operators

Description	Through-the-door operators
Product Selection	**Page V7-T1-107**

Bulkhead Interfaces

Description	Bulkhead interfaces
Product Selection	**Page V7-T1-107**

ASi Adapter Modules

Description	ASi adapter modules
Product Selection	**Page V7-T1-108**

Palm Switches

Description	Palm switches
Product Selection	**Page V7-T1-109**

Assembled Control Stations

Description	Assembled control stations
Product Selection	**Page V7-T1-16**

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M22-_

Point-of-Purchase Units

Color	Type	Contact Configuration [1]	Catalog Number
Black	Flush momentary	NO/NC	**M22-D-S-K11-P**
Red	Extended momentary	NO/NC	**M22-DH-R-K11-P**
Green	Flush momentary	NO/NC	**M22-D-G-K11-P**
Red	Ext. illuminated (12–30V) momentary	NO/NC	**M22-DLH-R-K11-R-P**
Red	Ext. illuminated (85–264V) momentary	NO/NC	**M22-DLH-R-K11-230R-P**
White	Flush illuminated (12–30V) maintained	NO/NC	**M22-DRL-W-K11-W-P**
White	Flush illuminated (85–264V) maintained	NO/NC	**M22-DRL-W-K11-230W-P**
Red	Indicating light (12–30V)	—	**M22-L-R-R-P**
Green	Indicating light (12–30V)	—	**M22-L-G-G-P**
Red	Indicting light (85–264V)	—	**M22-L-R-230R-P**
Green	Indicating light (85–264 Vac)	—	**M22-L-G-230G-P**
Red	Twist-to-release E-stop	1NO/2NC	**M22-PVT-K12-P**
Red	Illuminated (12–30V) push-pull E-stop	1NO/2NC	**M22-PVL-K12-R-P**
Red	Illuminated (85–264V) push-pull E-stop	1NO/2NC	**M22-PVL-K12-230R-P**
—	Two-position maintained V selector switch	NO/NC	**M22-WKV-K11-P**
—	Three-position momentary selector switch	NO/NC	**M22-WK3-K22-P**

Note

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

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Pushbuttons—Non-Illuminated and Illuminated

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Non-Illuminated, Extended, Momentary	**V7-T1-58**
Non-Illuminated, Extended, Maintained	**V7-T1-60**
Illuminated, Flush, Momentary	**V7-T1-63**
Illuminated, Flush, Maintained	**V7-T1-66**
Illuminated, Extended, Momentary	**V7-T1-68**
Illuminated, Extended, Maintained	**V7-T1-70**

Pushbuttons—Non-Illuminated and Illuminated

Product Description

Eaton's M22 pushbutton line is a complete, modular and versatile offering. From field-convertible maintained operators to customizable laser engraved buttons, the M22 pushbutton line provides endless opportunity for flexibility and reduced inventory. Each operator type provides options for ordering as complete or component parts allowing for a perfect fit for each application. All of this flexibility comes in a very rugged design.

Features

- Field convertible from maintained to momentary (available on maintained pushbuttons only)
- Customizable laser engraving on all buttons
- LED offering only for improved brightness quality and up to 100,000 hours of operation
- More than five million mechanical operations on momentary and 1 million on maintained pushbuttons
- Modular construction makes assembly fast and simplifies stocking of components and complete devices
- Capable of communicating via ASi protocol with ASi adapter modules

Protection Type

- IP67, IP69K
- NEMA 4X, 13

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Catalog Number Selection

Catalog Number Selection is for illustrative purposes only and not to be used to create new catalog numbers.

Non-Illuminated Pushbuttons

M22 – D – S – X0 – K10

Bezel
- **M22** = Silver
- **M22S** = Black
- **M22M** = Metal

Operator Type
- **D** = Flush momentary
- **DH** = Extended momentary
- **DG** = Flush with guard ①
- **DR** = Flush maintained
- **DGH** = Extended momentary with guard ①
- **DRH** = Extended maintained

Button Plate Color

G = Green	**S** = Black
Y = Yellow	**R** = Red
B = Blue	**W** = White

Inscription

GB0 = STOP	**X0** = ◎
GB1 = START	**X1** = ⏽
GB2 = CLOSE	**X4** = ⊕
GB3 = UP	**X5** = ⊖
GB4 = DOWN	**X6** = Ⓡ
GB5 = OFF	**X7** = ⏽
GB6 = ON	**X8** = ⊘
GB14 = RESET	
GB15 = FORWARD	
GB16 = REVERSE	

Contact Blocks

K10 = 1NO	**K30** = 3NO
K01 = 1NC	**K03** = 3NC
K20 = 2NO	**K21** = 2NO-1NC
K02 = 2NC	**K12** = 1NO-2NC
K11 = 1NO-1NC	

① Silver bezel only.

Product Selection

Non-Illuminated Pushbuttons, Flush, Momentary

M22-D-G-K10

M22S-D-G-K10

M22M-D-G-K10

Complete Devices

Button Color	Contact Block Configuration ①	Silver Bezel Catalog Number	Black Bezel Catalog Number	Metal Bezel Catalog Number
Black	NO	**M22-D-S-K10**	**M22S-D-S-K10**	**M22M-D-S-K10**
	NC	**M22-D-S-K01**	**M22S-D-S-K01**	**M22M-D-S-K01**
	2NO	**M22-D-S-K20**	**M22S-D-S-K20**	**M22M-D-S-K20**
	2NC	**M22-D-S-K02**	**M22S-D-S-K02**	**M22M-D-S-K02**
	1NO-1NC	**M22-D-S-K11**	**M22S-D-S-K11**	**M22M-D-S-K11**
Red	NO	**M22-D-R-K10**	**M22S-D-R-K10**	**M22M-D-R-K10**
	NC	**M22-D-R-K01**	**M22S-D-R-K01**	**M22M-D-R-K01**
	2NO	**M22-D-R-K20**	**M22S-D-R-K20**	**M22M-D-R-K20**
	2NC	**M22-D-R-K02**	**M22S-D-R-K02**	**M22M-D-R-K02**
	1NO-1NC	**M22-D-R-K11**	**M22S-D-R-K11**	**M22M-D-R-K11**
Green	NO	**M22-D-G-K10**	**M22S-D-G-K10**	**M22M-D-G-K10**
	NC	**M22-D-G-K01**	**M22S-D-G-K01**	**M22M-D-G-K01**
	2NO	**M22-D-G-K20**	**M22S-D-G-K20**	**M22M-D-G-K20**
	2NC	**M22-D-G-K02**	**M22S-D-G-K02**	**M22M-D-G-K02**
	1NO-1NC	**M22-D-G-K11**	**M22S-D-G-K11**	**M22M-D-G-K11**

Note

① All NC contact blocks are positively driven contact. ⊖

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Non-Illuminated Pushbuttons, Flush, Momentary

M22-D-G

M22S-D-G

M22M-D-G

Operators Only ①

Button Color	Inscription	Silver Bezel Catalog Number	Black Bezel Catalog Number	Metal Bezel Catalog Number
Black	—	**M22-D-S**	**M22S-D-S**	**M22M-D-S**
Red	—	**M22-D-R**	**M22S-D-R**	**M22M-D-R**
	STOP	**M22-D-R-GB0**	**M22S-D-R-GB0**	—
	◎	**M22-D-R-X0**	**M22S-D-R-X0**	**M22M-D-R-X0**
Green	—	**M22-D-G**	**M22S-D-G**	**M22M-D-G**
	START	**M22-D-G-GB1**	**M22S-D-G-GB1**	**M22M-D-G-GB1**
	①	**M22-D-G-X1**	**M22S-D-G-X1**	**M22M-D-G-X1**
White	—	**M22-D-W**	**M22S-D-W**	**M22M-D-W**
Blue	—	**M22-D-B**	**M22S-D-B**	**M22M-D-B**
Yellow	—	**M22-D-Y**	**M22S-D-Y**	**M22M-D-Y**
—	—	**M22-D-X-SRG** ②	**M22S-D-X-SRG** ②	**M22M-D-X-SRG** ②
	—	**M22-D-X-SWRGYB** ③	**M22S-D-X-SWRGYB** ③	**M22M-D-X-SWRGYB** ③

M22-DG-G

Silver Guarded

Button Color	Inscription	Silver Bezel Catalog Number
Black	—	**M22-DG-S**
Red	—	**M22-DG-R**
Green	—	**M22-DG-G**
White	—	**M22-DG-W**
Blue	—	**M22-DG-B**
Yellow	—	**M22-DG-Y**
—	—	**M22-DG-X-SRG** ②
	—	**M22-DG-X-SWRGYB** ③

Notes

① Includes contact block mounting adapter.
② Buttonless operator comes with three color buttons (black, red, green).
③ Buttonless operator comes with all six color buttons (black, white, red, green, yellow, blue).

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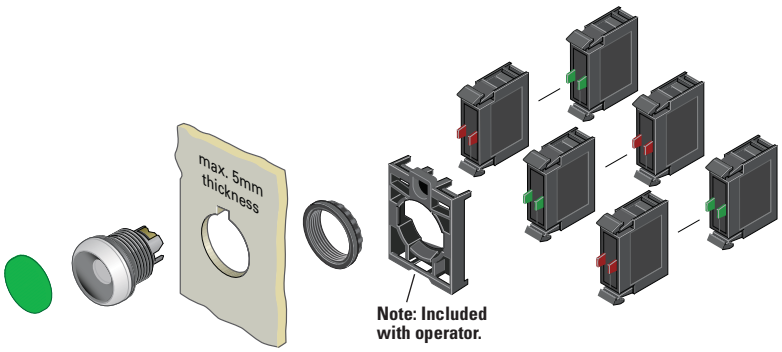
Non-Illuminated Pushbuttons, Flush, Momentary



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**
	①	**M22-XD-S-X1**
	⑪	**M22-XD-S-X2**
	⊕	**M22-XD-S-X4**
	⊖	**M22-XD-S-X5**
	⑦	**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**
	①	**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**
	①	**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

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**

M22-DG-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. ⊖

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Non-Illuminated Pushbuttons, Flush, Maintained ①

M22-DR-S

M22S-DR-S

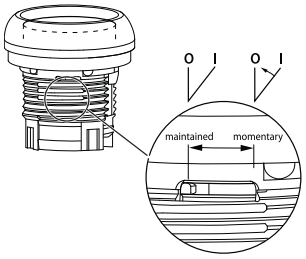
M22M-DR-S

Operators Only ②

Button Color	Silver Bezel Catalog Number	Black Bezel Catalog Number	Metal Bezel Catalog Number
Black	**M22-DR-S**	**M22S-DR-S**	**M22M-DR-S**
Red	**M22-DR-R**	**M22S-DR-R**	**M22M-DR-R**
Green	**M22-DR-G**	**M22S-DR-G**	**M22M-DR-G**
White	**M22-DR-W**	**M22S-DR-W**	**M22M-DR-W**
Blue	**M22-DR-B**	**M22S-DR-B**	**M22M-DR-B**
Yellow	**M22-DR-Y**	**M22S-DR-Y**	**M22M-DR-Y**
③	**M22-DR-X-SRG**	**M22S-DR-X-SRG**	**M22M-DR-X-SRG**
④	**M22-DR-X-SWRGYB**	**M22S-DR-X-SWRGYB**	**M22M-DR-X-SWRGYB**

Notes

① Maintained pushbuttons can be converted in the field to momentary operation by switching the locking ring, which is accessible through the side of the operator body.
② Includes contact block mounting adapter.
③ Buttonless operator comes with three color buttons (black, red, green).
④ Buttonless operator comes with all six color buttons (black, white, red, green, yellow, blue).



Note: This pilot device features a selectable function switch that enables the device to be set to either maintained or momentary operation.

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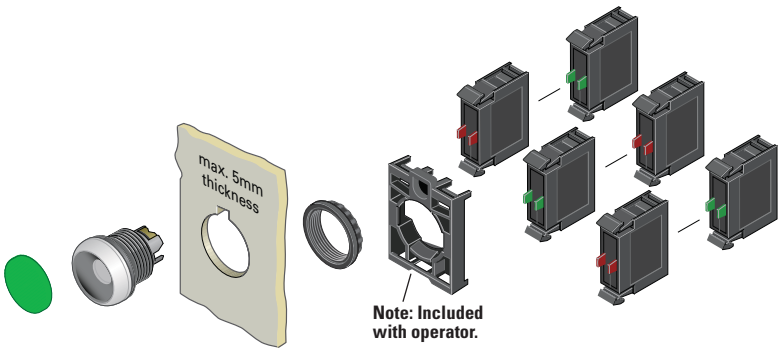
Non-Illuminated Pushbuttons, Flush, Maintained ①



Components

M22-XD-S

Button Plates ②

Color	Inscription	Catalog Number
Black	—	**M22-XD-S** ③
	Custom	**M22-XD-S-ETCH** ④
	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** ③
	Custom	**M22-XD-R-ETCH** ④
	STOP	**M22-XD-R-GB0**
	OFF	**M22-XD-R-GB5**
	◎	**M22-XD-R-X0**
Green	—	**M22-XD-G** ③
	Custom	**M22-XD-G-ETCH** ④
	START	**M22-XD-G-GB1**
	ON	**M22-XD-G-GB6**
	⏽	**M22-XD-G-X1**
Blue	—	**M22-XD-B** ③
	Custom	**M22-XD-B-ETCH** ④
	RESET	**M22-XD-B-GB14**
	Ⓡ	**M22-XD-B-X6**
White	—	**M22-XD-W** ③
	Custom	**M22-XD-W-ETCH** ④
	START	**M22-XD-W-GB1**
	⏽	**M22-XD-W-X1**
Yellow	—	**M22-XD-Y** ③
	Custom	**M22-XD-Y-ETCH** ④
Black, red, green	—	**M22-XD-SRG**
Black, white, red, green, yellow, blue	—	**M22-XD-SWRGYB**

M22-DR-X

M22S-DR-X

M22M-DR-X

Buttonless Operator

Silver Bezel Catalog Number ⑤	Black Bezel Catalog Number ⑤	Metal Bezel Catalog Number ⑤
M22-DR-X	**M22S-DR-X**	**M22M-DR-X**

M22-K10

Contact Blocks ②

Terminal Type	Contact Configuration ⑥	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 Maintained pushbuttons can be converted in the field to momentary operation by switching the locking ring, which is accessible through the side of the operator body.

② For complete listing of available button plates and contact blocks, see Accessories, **Pages V7-T1-111** to **V7-T1-116**.

③ Minimum order quantity of (10).

④ 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 #_.

⑤ Includes contact block mounting adapter.

⑥ All NC contact blocks are positively driven contact. ⊖

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Non-Illuminated Pushbuttons, Extended, Momentary

M22-DH-R-K10

M22S-DH-R-K10

M22M-DH-R-K10

Complete Devices

Button Color	Contact Block Configuration ①	Silver Bezel Catalog Number	Black Bezel Catalog Number	Metal Bezel Catalog Number
Red	NO	**M22-DH-R-K10**	**M22S-DH-R-K10**	**M22M-DH-R-K10**
	NC	**M22-DH-R-K01**	**M22S-DH-R-K01**	**M22M-DH-R-K01**
	2NO	**M22-DH-R-K20**	**M22S-DH-R-K20**	**M22M-DH-R-K20**
	2NC	**M22-DH-R-K02**	**M22S-DH-R-K02**	**M22M-DH-R-K02**
	1NO-1NC	**M22-DH-R-K11**	**M22S-DH-R-K11**	**M22M-DH-R-K11**

M22-DGH-R-K10

Silver Guarded

Button Color	Contact Block Configuration ①	Silver Bezel Catalog Number
Red	NO	**M22-DGH-R-K10**
	NC	**M22-DGH-R-K01**
	2NO	**M22-DGH-R-K20**
	2NC	**M22-DGH-R-K02**
	1NO-1NC	**M22-DGH-R-K11**

M22-DH-R

M22S-DH-R

M22M-DH-R

Operators Only ②

Button Color	Inscription	Silver Bezel Catalog Number	Black Bezel Catalog Number	Metal Bezel Catalog Number
Black	—	**M22-DH-S**	**M22S-DH-S**	**M22M-DH-S**
Red	—	**M22-DH-R**	**M22S-DH-R**	**M22M-DH-R**
	STOP	**M22-DH-R-GB0**	**M22S-DH-R-GB0**	**M22M-DH-R-GB0**
	◎	**M22-DH-R-X0**	**M22S-DH-R-X0**	**M22M-DH-R-X0**
Green	—	**M22-DH-G**	**M22S-DH-G**	**M22M-DH-G**
White	—	**M22-DH-W**	**M22S-DH-W**	**M22M-DH-W**
Blue	—	**M22-DH-B**	**M22S-DH-B**	**M22M-DH-B**
Yellow	—	**M22-DH-Y**	**M22S-DH-Y**	**M22M-DH-Y**
③	—	**M22-DH-X-SRG**	**M22S-DH-X-SRG**	**M22M-DH-X-SRG**
④	—	**M22-DH-X-SWRGYB**	**M22S-DH-X-SWRGYB**	**M22M-DH-X-SWRGYB**

M22-DGH-R-K10

Silver Guarded

Button Color	Inscription	Silver Bezel Catalog Number
Black	—	**M22-DGH-S**
Red	—	**M22-DGH-R**
	STOP	**M22-DGH-R-GB0**
	◎	**M22-DGH-R-X0**
Green	—	**M22-DGH-G**
White	—	**M22-DGH-W**
Blue	—	**M22-DGH-B**
Yellow	—	**M22-DGH-Y**

Notes

① All NC contact blocks are positively driven contact. ⊖
② Includes contact block mounting adapter.
③ Buttonless operator comes with three color buttons (black, red, green).
④ Buttonless operator comes with all six color buttons (black, white, red, green, yellow, blue).

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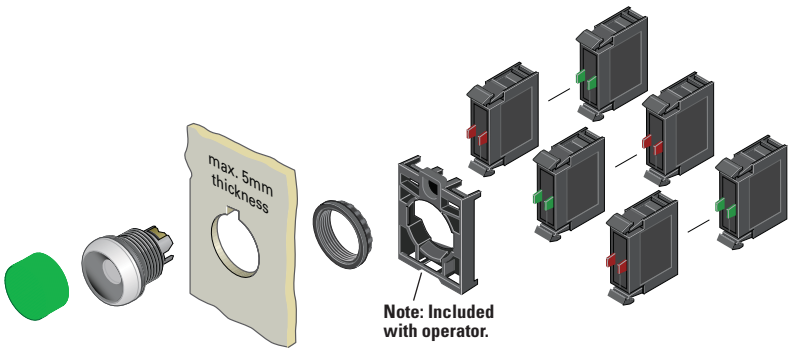
Non-Illuminated Pushbuttons, Extended, Momentary



Components

M22-XDH-R

Button Plates ①

Color	Inscription	Catalog Number
Black	—	**M22-XDH-S** ②
	Custom	**M22-XDH-S-ETCH** ③
	STOP	**M22-XDH-S-GB0**
	START	**M22-XDH-S-GB1**
	CLOSE	**M22-XDH-S-GB2**
	UP	**M22-XDH-S-GB3**
	DOWN	**M22-XDH-S-GB4**
	OFF	**M22-XDH-S-GB5**
	ON	**M22-XDH-S-GB6**
	TEST	**M22-XDH-S-GB9**
	FORWARD	**M22-XDH-S-GB15**
	REVERSE	**M22-XDH-S-GB16**
	RAISE	**M22-XDH-S-GB17**
	LOWER	**M22-XDH-S-GB18**
	◎	**M22-XDH-S-X0**
	①	**M22-XDH-S-X1**
	⑪	**M22-XDH-S-X2**
	⊕	**M22-XDH-S-X4**
	⊖	**M22-XDH-S-X5**
	⑦	**M22-XDH-S-X7**
Red	—	**M22-XDH-R** ②
	Custom	**M22-XDH-R-ETCH** ③
	STOP	**M22-XDH-R-GB0**
	OFF	**M22-XDH-R-GB5**
	◎	**M22-XDH-R-X0**
Green	—	**M22-XDH-G** ②
	Custom	**M22-XDH-G-ETCH** ③
	START	**M22-XDH-G-GB1**
	ON	**M22-XDH-G-GB6**
	①	**M22-XDH-G-X1**
Blue	—	**M22-XDH-B** ②
	Custom	**M22-XDH-B-ETCH** ③
	RESET	**M22-XDH-B-GB14**
	Ⓡ	**M22-XDH-B-X6**
White	—	**M22-XDH-W** ②
	Custom	**M22-XDH-W-ETCH** ③
	START	**M22-XDH-W-GB1**
	①	**M22-XDH-W-X1**
Yellow	—	**M22-XDH-Y** ②
	Custom	**M22-XDH-Y-ETCH** ③
Black, red, green	—	**M22-XDH-SRG**
Black, white, red, green, yellow, blue	—	**M22-XDH-SWRGYB**

M22-D-X

M22S-D-X

M22M-D-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**

M22-DG-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-XDH-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. ⊖

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Non-Illuminated Pushbuttons, Extended, Maintained ①

M22-DRH-W

M22S-DRH-W

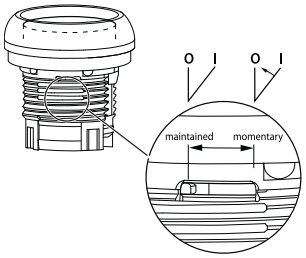
M22M-DRH-W

Operators Only ②

Button Color	Silver Bezel Catalog Number	Black Bezel Catalog Number	Metal Bezel Catalog Number
Black	**M22-DRH-S**	**M22S-DRH-S**	**M22M-DRH-S**
Red	**M22-DRH-R**	**M22S-DRH-R**	**M22M-DRH-R**
Green	**M22-DRH-G**	**M22S-DRH-G**	**M22M-DRH-G**
White	**M22-DRH-W**	**M22S-DRH-W**	**M22M-DRH-W**
Blue	**M22-DRH-B**	**M22S-DRH-B**	**M22M-DRH-B**
Yellow	**M22-DRH-Y**	**M22S-DRH-Y**	**M22M-DRH-Y**
③	**M22-DRH-X-SRG**	**M22S-DRH-X-SRG**	**M22M-DRH-X-SRG**
④	**M22-DRH-X-SWRGYB**	**M22S-DRH-X-SWRGYB**	**M22M-DRH-X-SWRGYB**

Notes

① Maintained pushbuttons can be converted in the field to momentary operation by switching the locking ring, which is accessible through the side of the operator body.
② Includes contact block mounting adapter.
③ Buttonless operator comes with three color buttons (black, red, green).
④ Buttonless operator comes with all six color buttons (black, white, red, green, yellow, blue).



Note: This pilot device features a selectable function switch that enables the device to be set to either maintained or momentary operation.

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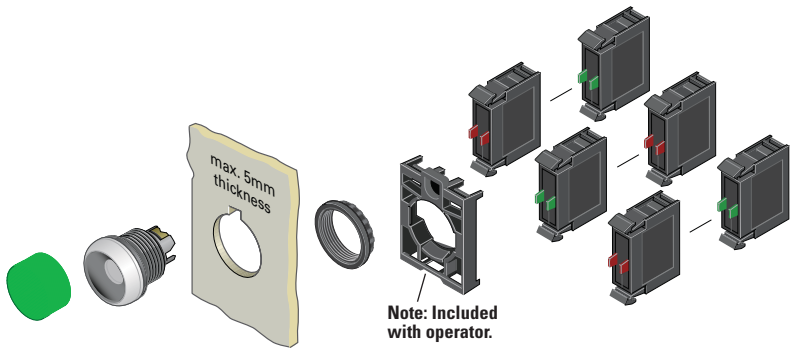
Non-Illuminated Pushbuttons, Extended, Maintained ①



Components

M22-XDH-W

Button Plates ②

Color	Inscription	Catalog Number
Black	—	**M22-XDH-S** ③
	Custom	**M22-XDH-S-ETCH** ④
	STOP	**M22-XDH-S-GB0**
	START	**M22-XDH-S-GB1**
	CLOSE	**M22-XDH-S-GB2**
	UP	**M22-XDH-S-GB3**
	DOWN	**M22-XDH-S-GB4**
	OFF	**M22-XDH-S-GB5**
	ON	**M22-XDH-S-GB6**
	TEST	**M22-XDH-S-GB9**
	FORWARD	**M22-XDH-S-GB15**
	REVERSE	**M22-XDH-S-GB16**
	RAISE	**M22-XDH-S-GB17**
	LOWER	**M22-XDH-S-GB18**
	◎	**M22-XDH-S-X0**
	①	**M22-XDH-S-X1**
	⑪	**M22-XDH-S-X2**
	⊕	**M22-XDH-S-X4**
	⊖	**M22-XDH-S-X5**
	⑦	**M22-XDH-S-X7**
Red	—	**M22-XDH-R** ③
	Custom	**M22-XDH-R-ETCH** ④
	STOP	**M22-XDH-R-GB0**
	OFF	**M22-XDH-R-GB5**
	◎	**M22-XDH-R-X0**
Green	—	**M22-XDH-G** ③
	Custom	**M22-XDH-G-ETCH** ④
	START	**M22-XDH-G-GB1**
	ON	**M22-XDH-G-GB6**
	①	**M22-XDH-G-X1**
Blue	—	**M22-XDH-B** ③
	Custom	**M22-XDH-B-ETCH** ④
	RESET	**M22-XDH-B-GB14**
	Ⓡ	**M22-XDH-B-X6**
White	—	**M22-XDH-W** ③
	Custom	**M22-XDH-W-ETCH** ④
	START	**M22-XDH-W-GB1**
	①	**M22-XDH-W-X1**
Yellow	—	**M22-XDH-Y** ③
	Custom	**M22-XDH-Y-ETCH** ④
Black, red, green	—	**M22-XDH-SRG**
Black, white, red, green, yellow, blue	—	**M22-XDH-SWRGYB**

M22-DR-X

M22S-DR-X

M22M-DR-X

Buttonless Operator

Silver Bezel Catalog Number ⑤	Black Bezel Catalog Number ⑤	Metal Bezel Catalog Number ⑤
M22-DR-X	**M22S-DR-X**	**M22M-DR-X**

M22-K10

Contact Blocks ②

Terminal Type	Contact Configuration ⑥	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 Maintained pushbuttons can be converted in the field to momentary operation by switching the locking ring, which is accessible through the side of the operator body.

② For complete listing of available button plates and contact blocks, see Accessories, **Pages V7-T1-111** to **V7-T1-116**.

③ Minimum order quantity of (10).

④ 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-XDH-S-ETCH; Order Notes: Mark with symbol X91, Line item #_.

⑤ Includes contact block mounting adapter.

⑥ All NC contact blocks are positively driven contact. ⊖

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Catalog Number Selection

Catalog Number Selection is for illustrative purposes only and not to be used to create new catalog numbers.

Illuminated Pushbuttons

M22 – DRL – R – GB0 – K10 – 230R

Bezel

M22 = Silver
M22S = Black
M22M = Metal

Operator Type

DL = Illuminated flush momentary
DLH = Illuminated extended momentary
DGL = Illuminated flush momentary with guard ①
DRL = Illuminated flush maintained
DGLH = Illuminated extended momentary with guard ①
DRLH = Illuminated extended maintained

① Silver bezel only.

Lens Color

W = White
R = Red
G = Green
Y = Yellow
B = Blue
A = Amber

Contact Blocks

K10 = 1NO
K01 = 1NC
K20 = 2NO
K02 = 2NC
K11 = 1NO-1NC
K30 = 3NO
K03 = 3NC
K21 = 2NO-1NC
K12 = 1NO-2NC

Light Units

12–30 Vac/Vdc
W = White
R = Red
G = Green
B = Blue
85–264 Vac
230W = White
230R = Red
230G = Green
230B = Blue

Inscription

GB0 = STOP
GB1 = START
GB2 = CLOSE
GB3 = UP
GB4 = DOWN
GB5 = OFF
GB6 = ON
GB14 = RESET
GB15 = FORWARD
GB16 = REVERSE
X0 = ◎
X1 = ①
X4 = ⊕
X5 = ⊖
X6 = Ⓡ

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Product Selection

Illuminated Pushbuttons, Flush, Momentary

M22-DL-G-K01-G

M22S-DL-G-K01-G

M22M-DL-G-K01-G

Complete Devices

Button Color	Contact Block Configuration ①	Light Unit Voltage	Silver Bezel Catalog Number	Black Bezel Catalog Number	Metal Bezel Catalog Number
Red	NC	12–30 Vac/Vdc	**M22-DL-R-K01-R**	**M22S-DL-R-K01-R**	**M22M-DL-R-K01-R**
	NC	85–264 Vac	**M22-DL-R-K01-230R**	**M22S-DL-R-K01-230R**	**M22M-DL-R-K01-230R**
	2NC	12–30 Vac/Vdc	**M22-DL-R-K02-R**	**M22S-DL-R-K02-R**	**M22M-DL-R-K02-R**
	2NC	85–264 Vac	**M22-DL-R-K02-230R**	**M22S-DL-R-K02-230R**	**M22M-DL-R-K02-230R**
	1NO/1NC	12–30 Vac/Vdc	**M22-DL-R-K11-R**	**M22S-DL-R-K11-R**	**M22M-DL-R-K11-R**
	1NO/1NC	85–264 Vac	**M22-DL-R-K11-230R**	**M22S-DL-R-K11-230R**	**M22M-DL-R-K11-230R**
Green	NO	12–30 Vac/Vdc	**M22-DL-G-K10-G**	**M22S-DL-G-K10-G**	**M22M-DL-G-K10-G**
	NO	85–264 Vac	**M22-DL-G-K10-230G**	**M22S-DL-G-K10-230G**	**M22M-DL-G-K10-230G**
	2NO	12–30 Vac/Vdc	**M22-DL-G-K20-G**	**M22S-DL-G-K20-G**	**M22M-DL-G-K20-G**
	2NO	85–264 Vac	**M22-DL-G-K20-230G**	**M22S-DL-G-K20-230G**	**M22M-DL-G-K20-230G**
	1NO/1NC	12–30 Vac/Vdc	**M22-DL-G-K11-G**	**M22S-DL-G-K11-G**	**M22M-DL-G-K11-G**
	1NO/1NC	85–264 Vac	**M22-DL-G-K11-230G**	**M22S-DL-G-K11-230G**	**M22M-DL-G-K11-230G**
White	NO	12–30 Vac/Vdc	**M22-DL-W-K10-W**	**M22S-DL-W-K10-W**	—
	NO	85–264 Vac	**M22-DL-W-K10-230W**	**M22S-DL-W-K10-230W**	**M22M-DL-W-K10-230W**
	2NO	12–30 Vac/Vdc	**M22-DL-W-K20-W**	**M22S-DL-W-K20-W**	—
	2NO	85–264 Vac	**M22-DL-W-K20-230W**	**M22S-DL-W-K20-230W**	**M22M-DL-W-K20-230W**
	1NO/1NC	12–30 Vac/Vdc	**M22-DL-W-K11-W**	**M22S-DL-W-K11-W**	—
	1NO/1NC	85–264 Vac	**M22-DL-W-K11-230W**	**M22S-DL-W-K11-230W**	**M22M-DL-W-K11-230W**

Note

① All NC contact blocks are positively driven contact. ⊖

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Illuminated Pushbuttons, Flush, Momentary

M22-DL-G

M22S-DL-G

M22M-DL-G

Operators Only ①

Button Color	Silver Bezel Catalog Number	Black Bezel Catalog Number	Metal Bezel Catalog Number
Red	**M22-DL-R**	**M22S-DL-R**	**M22M-DL-R**
Green	**M22-DL-G**	**M22S-DL-G**	**M22M-DL-G**
White	**M22-DL-W**	**M22S-DL-W**	**M22M-DL-W**
Blue	**M22-DL-B**	**M22S-DL-B**	**M22M-DL-B**
Yellow	**M22-DL-Y**	**M22S-DL-Y**	**M22M-DL-Y**
Amber	**M22-DL-A**	**M22S-DL-A**	**M22M-DL-A**

M22-DGL-G

Silver Guarded

Button Color	Silver Bezel Catalog Number
Red	**M22-DGL-R**
Green	**M22-DGL-G**
White	**M22-DGL-W**
Blue	**M22-DGL-B**
Yellow	**M22-DGL-Y**

Note

① Includes contact block mounting adapter.

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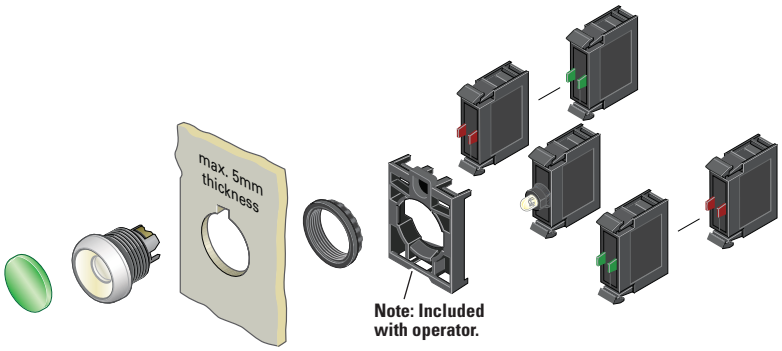
Illuminated Pushbuttons, Flush, Momentary



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**
	Ⓡ	**M22-XDL-B-X6**
White	—	**M22-XDL-W** ②
	Custom	**M22-XDL-W-ETCH** ③
Yellow	—	**M22-XDL-Y** ②
	Custom	**M22-XDL-Y-ETCH** ③
Amber	—	**M22-XDL-A**
	Custom	**M22-XDL-A-ETCH**

M22-DL-X

M22S-DL-X

M22M-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**

M22-DGL-X

Silver Guarded

Silver Bezel Catalog Number ④
M22-DGL-X

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**

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. ⊖

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Illuminated Pushbuttons, Flush, Maintained ②

M22-DRL-W-K10-W

M22S-DRL-W-K10-W

M22M-DRL-W-K10-W

Complete Devices

Button Color	Contact Block Configuration ①	Light Unit Voltage	Silver Bezel Catalog Number	Black Bezel Catalog Number	Metal Bezel Catalog Number
White	NO	12–30 Vac/Vdc	**M22-DRL-W-K10-W**	**M22S-DRL-W-K10-W**	**M22M-DRL-W-K10-W**
	NO	85–264 Vac	**M22-DRL-W-K10-230W**	**M22S-DRL-W-K10-230W**	**M22M-DRL-W-K10-230W**
	NC	12–30 Vac/Vdc	**M22-DRL-W-K01-W**	**M22S-DRL-W-K01-W**	**M22M-DRL-W-K01-W**
	NC	85–264 Vac	**M22-DRL-W-K01-230W**	**M22S-DRL-W-K01-230W**	**M22M-DRL-W-K01-230W**
	2NO	12–30 Vac/Vdc	**M22-DRL-W-K20-W**	**M22S-DRL-W-K20-W**	**M22M-DRL-W-K20-W**
	2NO	85–264 Vac	**M22-DRL-W-K20-230W**	**M22S-DRL-W-K20-230W**	**M22M-DRL-W-K20-230W**
	2NC	12–30 Vac/Vdc	**M22-DRL-W-K02-W**	**M22S-DRL-W-K02-W**	**M22M-DRL-W-K02-W**
	2NC	85–264 Vac	**M22-DRL-W-K02-230W**	**M22S-DRL-W-K02-230W**	**M22M-DRL-W-K02-230W**
	1NO/1NC	12–30 Vac/Vdc	**M22-DRL-W-K11-W**	**M22S-DRL-W-K11-W**	**M22M-DRL-W-K11-W**
	1NO/1NC	85–264 Vac	**M22-DRL-W-K11-230W**	**M22S-DRL-W-K11-230W**	**M22M-DRL-W-K11-230W**

M22-DRL-W

M22S-DRL-W

M22M-DRL-W

Operators Only ③

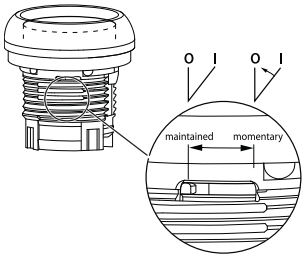
Button Color	Silver Bezel Catalog Number	Black Bezel Catalog Number	Metal Bezel Catalog Number
Red	**M22-DRL-R**	**M22S-DRL-R**	**M22M-DRL-R**
Green	**M22-DRL-G**	**M22S-DRL-G**	**M22M-DRL-G**
White	**M22-DRL-W**	**M22S-DRL-W**	**M22M-DRL-W**
Blue	**M22-DRL-B**	**M22S-DRL-B**	**M22M-DRL-B**
Yellow	**M22-DRL-Y**	**M22S-DRL-Y**	**M22M-DRL-Y**
Amber	**M22-DRL-A**	**M22S-DRL-A**	**M22M-DRL-A**

Notes

① All NC contact blocks are positively driven contact. ⊖

② Maintained pushbuttons can be converted in the field to momentary operation by switching the locking ring, which is accessible through the side of the operator body.

③ Includes contact block mounting adapter.



Note: This pilot device features a selectable function switch that enables the device to be set to either maintained or momentary operation.

Button Lenses

Light Units

Contact Blocks

Buttonless Operator

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Catalog Number Selection

Catalog Number Selection is for illustrative purposes only and not to be used to create new catalog numbers.

Non-Illuminated Selector Switches

M22 – WRK _ – X91 – K10

Bezel
- **M22** = Silver
- **M22S** = Black
- **M22M** = Metal

Handle Type ①
- **W** = Momentary rotary
- **WK** = Momentary knob
- **WKV** = Maintained V-position knob
- **WR** = Maintained rotary
- **WRK** = Maintained knob

① All momentary selector switches can be converted in the field to maintained operation with the removal of a color-coded adapter.

Number of Positions
- **Blank** = Two-position
- **3** = Three-position
- **4** = Four-position

Inscription ②
- **X91** = AUTO-HAND
- **X92** = II-I

② Rotary type only.

Contact Blocks
- **K10** = NO
- **K10P** = NO, early-make

Options
- **K11** = NO-NC
- **K22** = 2NO-2NC
- **K20** = 2NO
- **K02** = 2NC

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Product Selection

Non-Illuminated Selector Switches

M22-WKV-K10

M22M-WKV-K10

Complete Devices, Knob Type ①

Type	Switching Position	Contact Block Configuration ②	Silver Bezel Catalog Number	Black Bezel Catalog Number	Metal Bezel Catalog Number
Two-position	Maintained 40°	NO	**M22-WRK-K10**	**M22S-WRK-K10**	**M22M-WRK-K10**
		1NO-1NC	**M22-WRK-K11**	**M22S-WRK-K11**	**M22M-WRK-K11**
		2NO-2NC	**M22-WRK-K22**	**M22S-WRK-K22**	**M22M-WRK-K22**
	Maintained V 60°	NO	**M22-WKV-K10**	**M22S-WKV-K10**	**M22M-WKV-K10**
		1NO-1NC	**M22-WKV-K11**	**M22S-WKV-K11**	**M22M-WKV-K11**
		2NO-2NC	**M22-WKV-K22**	**M22S-WKV-K22**	**M22M-WKV-K22**
Three-position	Maintained 0 60° I II 60°	2NO	**M22-WRK3-K20**	**M22S-WRK3-K20**	**M22M-WRK3-K20**
		2NO-2NC	**M22-WRK3-K22**	**M22S-WRK3-K22**	**M22M-WRK3-K22**

Notes

① Includes contact block mounting adapter.

② All NC contact blocks are positively driven contact. ⊖

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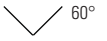
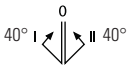
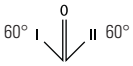
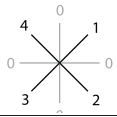
Non-Illuminated Selector Switches

Components

M22-WK

M22M-WK

Operators Only, Knob Type ①

Type	Switching Position	Silver Bezel Catalog Number	Black Bezel Catalog Number	Metal Bezel Catalog Number
Two-position	Momentary ②	**M22-WK**	**M22S-WK**	**M22M-WK**
	Maintained	**M22-WRK**	**M22S-WRK**	**M22M-WRK**
	Maintained V 	**M22-WKV**	**M22S-WKV**	**M22M-WKV**
Three-position	Momentary ② 	**M22-WK3**	**M22S-WK3**	**M22M-WK3**
	Maintained 	**M22-WRK3**	**M22S-WRK3**	**M22M-WRK3**
	Maintained, return from left	**M22-WRK3-2**	**M22S-WRK3-2**	**M22M-WRK3-2**
	Maintained, return from right	**M22-WRK3-1**	**M22S-WRK3-1**	**M22M-WRK3-1**
Four-position	Maintained 	**M22-WRK4**	**M22S-WRK4**	**M22M-WRK4**

Notes

① Includes contact block mounting adapter.

② Momentary selector switches can be converted in the field to maintained operation with the removal of a color coded adapter. See **Page V7-T1-118**.

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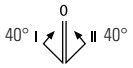
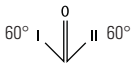
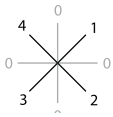
Non-Illuminated Selector Switches

Components

M22S-WR3-X94

Operators Only, Rotary Type ①

Type	Switching Position	Inscription	Silver Bezel Catalog Number	Black Bezel Catalog Number	Metal Bezel Catalog Number
Two-position	Momentary ②	I-O	**M22-W**	**M22S-W**	**M22M-W**
	Maintained	I-O	**M22-WR**	**M22S-WR**	**M22M-WR**
		Custom	**M22-WR-ETCH** ③	**M22S-WR-ETCH** ③	**M22M-WR-ETCH** ③
		AUTO-HAND	**M22-WR-X91**	**M22S-WR-X91**	**M22M-WR-X91**
		II-I	**M22-WR-X92**	**M22S-WR-X92**	**M22M-WR-X92**
Three-position	Momentary ② 	I-O-II	**M22-W3**	**M22S-W3**	**M22M-W3**
	Maintained 	I-O-II	**M22-WR3**	**M22S-WR3**	**M22M-WR3**
		Custom	**M22-WR3-ETCH** ③	**M22S-WR3-ETCH** ③	**M22M-WR3-ETCH** ③
		AUTO-O-MAN	**M22-WR3-X94**	**M22S-WR3-X94**	**M22M-WR3-X94**
Four-position	Maintained 	0-1-0-2-0-3-0-4	**M22-WR4**	**M22S-WR4**	**M22M-WR4**

Notes

① Includes contact block mounting adapter.

② Momentary selector switches can be converted in the field to maintained operation with the removal of a color coded adapter. See **Page V7-T1-118**.

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-WR3-ETCH; Order Notes: Mark with symbol X88, Line item #_.

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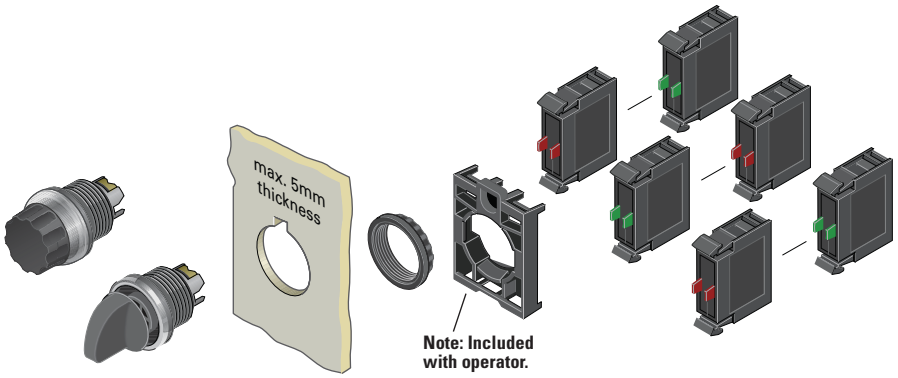
Non-Illuminated Selector Switches



Components

M22-K10

Contact Blocks ①

Terminal Type	Contact Configuration ②	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**

Accessories

	Description	Catalog Number
M22-XW	Plunger bridge ③	**M22-XW**
M22-XWS	Key cover	**M22-XWS**
M22-XC-R	Key withdraw adapter ④	**M22-XC-R**
M22-XC-Y	Coding adapter	**M22-XC-Y**
M22-XGWK	Guard ring	**M22-XGWK**

Notes

① For complete listing of available contact blocks, see Accessories, **Pages V7-T1-111** to **V7-T1-116**.
② All NC contact blocks are positively driven contact. ⊖
③ Plunger needed to actuate center-mounted contact blocks. Used for non-illuminated three-position selector switches only.
④ Enables a keyed selector switch to be set to user-selected key withdraw position.

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Catalog Number Selection

Catalog Number Selection is for illustrative purposes only and not to be used to create new catalog numbers.

Illuminated Selector Switches

M22 – WLK – R – K10 – R

Bezel
- **M22** = Silver
- **M22S** = Black
- **M22M** = Metal

Handle Type
- **WLK** = Illuminated knob type momentary, two-position
- **WLKV** = Illuminated Knob type momentary, V-position
- **WLK3** = Illuminated knob type momentary, three-position

Handle Color
- **W** = White
- **R** = Red
- **G** = Green
- **Y** = Yellow
- **B** = Blue

Contact Blocks
- **K10** = 1NO
- **K01** = 1NC
- **K20** = 2NO
- **K02** = 2NC
- **K11** = 1NO-1NC
- **K30** = 3NO
- **K03** = 3NC
- **K21** = 2NO-1NC
- **K12** = 1NO-2NC

Light Units

12–30 Vac/Vdc
- **W** = White
- **R** = Red
- **G** = Green
- **B** = Blue

85–264 Vac
- **230W** = White
- **230R** = Red
- **230G** = Green
- **230B** = Blue

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Product Selection

Illuminated Selector Switches

Components

M22-WLK-W

Operators Only, Knob Type ①

Type	Switching Position	Button Color	Silver Bezel Catalog Number	Black Bezel Catalog Number	Metal Bezel Catalog Number
Two-position	Momentary ② 40°	White	**M22-WLK-W**	**M22S-WLK-W**	**M22M-WLK-W**
		Red	**M22-WLK-R**	**M22S-WLK-R**	**M22M-WLK-R**
		Green	**M22-WLK-G**	**M22S-WLK-G**	**M22M-WLK-G**
		Yellow	**M22-WLK-Y**	**M22S-WLK-Y**	**M22M-WLK-Y**
		Blue	**M22-WLK-B**	**M22S-WLK-B**	**M22M-WLK-B**
	Maintained 40°	White	**M22-WRLK-W**	**M22S-WRLK-W**	**M22M-WRLK-W**
		Red	**M22-WRLK-R**	**M22S-WRLK-R**	**M22M-WRLK-R**
		Green	**M22-WRLK-G**	**M22S-WRLK-G**	**M22M-WRLK-G**
		Yellow	**M22-WRLK-Y**	**M22S-WRLK-Y**	**M22M-WRLK-Y**
		Blue	**M22-WRLK-B**	**M22S-WRLK-B**	**M22M-WRLK-B**
	Maintained V 60°	White	**M22-WLKV-W**	**M22S-WLKV-W**	**M22M-WLKV-W**
		Red	**M22-WLKV-R**	**M22S-WLKV-R**	**M22M-WLKV-R**
		Green	**M22-WLKV-G**	**M22S-WLKV-G**	**M22M-WLKV-G**
		Yellow	**M22-WLKV-Y**	**M22S-WLKV-Y**	**M22M-WLKV-Y**
		Blue	**M22-WLKV-B**	**M22S-WLKV-B**	**M22M-WLKV-B**

Notes

① Includes contact block mounting adapter.

② Momentary selector switches can be converted in the field to maintained operation with the removal of a color coded adapter. See **Page V7-T1-118**.

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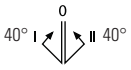
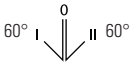
Illuminated Selector Switches

Components

M22-WLK3-W

Operators Only, Knob Type ①

Type	Switching Position	Button Color	Silver Bezel Catalog Number	Black Bezel Catalog Number	Metal Bezel Catalog Number
Three-position	Momentary ② 	White	**M22-WLK3-W**	**M22S-WLK3-W**	**M22M-WLK3-W**
		Red	**M22-WLK3-R**	**M22S-WLK3-R**	**M22M-WLK3-R**
		Green	**M22-WLK3-G**	**M22S-WLK3-G**	**M22M-WLK3-G**
		Yellow	**M22-WLK3-Y**	**M22S-WLK3-Y**	**M22M-WLK3-Y**
		Blue	**M22-WLK3-B**	**M22S-WLK3-B**	**M22M-WLK3-B**
	Maintained 	White	**M22-WRLK3-W**	**M22S-WRLK3-W**	**M22M-WRLK3-W**
		Red	**M22-WRLK3-R**	**M22S-WRLK3-R**	**M22M-WRLK3-R**
		Green	**M22-WRLK3-G**	**M22S-WRLK3-G**	**M22M-WRLK3-G**
		Yellow	**M22-WRLK3-Y**	**M22S-WRLK3-Y**	**M22M-WRLK3-Y**
		Blue	**M22-WRLK3-B**	**M22S-WRLK3-B**	**M22M-WRLK3-B**
	Maintained, return from right	White	**M22-WRLK3-1-W**	**M22S-WRLK3-1-W**	**M22M-WRLK3-1-W**
		Red	**M22-WRLK3-1-R**	**M22S-WRLK3-1-R**	**M22M-WRLK3-1-R**
		Green	**M22-WRLK3-1-G**	**M22S-WRLK3-1-G**	**M22M-WRLK3-1-G**
		Yellow	**M22-WRLK3-1-Y**	**M22S-WRLK3-1-Y**	**M22M-WRLK3-1-Y**
		Blue	**M22-WRLK3-1-B**	**M22S-WRLK3-1-B**	**M22M-WRLK3-1-B**
	Maintained, return from left	White	**M22-WRLK3-2-W**	**M22S-WRLK3-2-W**	**M22M-WRLK3-2-W**
		Red	**M22-WRLK3-2-R**	**M22S-WRLK3-2-R**	**M22M-WRLK3-2-R**
		Green	**M22-WRLK3-2-G**	**M22S-WRLK3-2-G**	**M22M-WRLK3-2-G**
		Yellow	**M22-WRLK3-2-Y**	**M22S-WRLK3-2-Y**	**M22M-WRLK3-2-Y**
		Blue	**M22-WRLK3-2-B**	**M22S-WRLK3-2-B**	**M22M-WRLK3-2-B**

Notes

① Includes contact block mounting adapter.

② Momentary selector switches can be converted in the field to maintained operation with the removal of a color coded adapter. See **Page V7-T1-118**.

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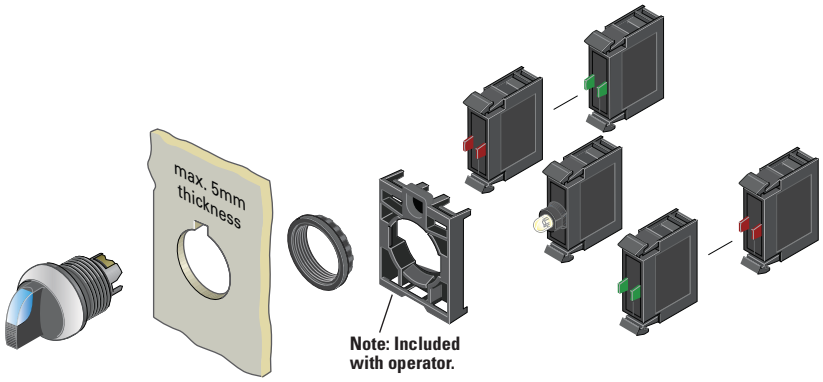
Illuminated Selector Switches



M22-LED-W

Light Units ①⑤

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 ③	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**

Accessories

	Description	Catalog Number
M22-XW	Plunger bridge ②	**M22-XW**
M22-XWS	Key cover	**M22-XWS**
M22-XC-R	Key withdraw adapter ④	**M22-XC-R**
M22-XC-Y	Coding adapter	**M22-XC-Y**
M22-XGWK	Guard ring	**M22-XGWK**

Notes

① For complete listing of available light units and contact blocks, see Accessories, **Pages V7-T1-111** to **V7-T1-116**.
② Plunger needed to actuate center-mounted contact blocks. Used for non-illuminated three-position selector switches only.
③ All NC contact blocks are positively driven contact. ⊖
④ Enables a keyed selector switch to be set to user-selected key withdraw position.
⑤ Select the same color LED element as lens color; for yellow lens, choose a white LED.

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Catalog Number Selection

Catalog Number Selection is for illustrative purposes only and not to be used to create new catalog numbers.

Key-Operated Selector Switches

M22 – WS – MS2 – A1

Bezel	Handle Type	Key Code	Key Removal Position
M22 = Silver **M22S** = Black **M22M** = Metal	**WS** = Two-position, momentary **WS3** = Three-position, momentary **WRS** = Two-position, maintained **WRS3** = Three-position, maintained	**Blank** = MS1 **MS2** = MS2 **MS3** = MS3 **MS4** = MS4 **MS5** = MS5 **MS6** = MS6 **MS7** = MS7 **MS8** = MS8	Refer to coding adapter assembly and functional test guide on **Page V7-T1-118**.

Product Selection

Key-Operated Selector Switches ①②

Components

M22-WS

M22S-WRS

Operators Only ③

Type	Switching Position	Key Removal Position	Key Code	Silver Bezel Catalog Number	Black Bezel Catalog Number	Metal Bezel Catalog Number
Two-position	Momentary ④ 40°	Return from right, key removable left	MS1	**M22-WS**	**M22S-WS**	**M22M-WS**
			MS2	**M22-WS-MS2**	**M22S-WS-MS2**	**M22M-WS-MS2**
			MS3	**M22-WS-MS3**	**M22S-WS-MS3**	**M22M-WS-MS3**
			MS4	**M22-WS-MS4**	**M22S-WS-MS4**	**M22M-WS-MS4**
			MS5	**M22-WS-MS5**	**M22S-WS-MS5**	**M22M-WS-MS5**
			MS6	**M22-WS-MS6**	**M22S-WS-MS6**	**M22M-WS-MS6**
			MS7	**M22-WS-MS7**	**M22S-WS-MS7**	**M22M-WS-MS7**
			MS8	**M22-WS-MS8**	**M22S-WS-MS8**	**M22M-WS-MS8**
Two-position	Maintained 40°	Key removable left	MS1	**M22-WRS-A1**	**M22S-WRS-A1**	**M22M-WRS-A1**
			MS2	**M22-WRS-MS2-A1**	**M22S-WRS-MS2-A1**	**M22M-WRS-MS2-A1**
			MS3	**M22-WRS-MS3-A1**	**M22S-WRS-MS3-A1**	**M22M-WRS-MS3-A1**
			MS4	**M22-WRS-MS4-A1**	**M22S-WRS-MS4-A1**	**M22M-WRS-MS4-A1**
			MS5	**M22-WRS-MS5-A1**	**M22S-WRS-MS5-A1**	**M22M-WRS-MS5-A1**
			MS6	**M22-WRS-MS6-A1**	**M22S-WRS-MS6-A1**	**M22M-WRS-MS6-A1**
			MS7	**M22-WRS-MS7-A1**	**M22S-WRS-MS7-A1**	**M22M-WRS-MS7-A1**
			MS8	**M22-WRS-MS8-A1**	**M22S-WRS-MS8-A1**	**M22M-WRS-MS8-A1**
		Key removable left/right	MS1	**M22-WRS**	**M22S-WRS**	**M22M-WRS**
			MS2	**M22-WRS-MS2**	**M22S-WRS-MS2**	**M22M-WRS-MS2**
			MS3	**M22-WRS-MS3**	**M22S-WRS-MS3**	**M22M-WRS-MS3**
			MS4	**M22-WRS-MS4**	**M22S-WRS-MS4**	**M22M-WRS-MS4**
			MS5	**M22-WRS-MS5**	**M22S-WRS-MS5**	**M22M-WRS-MS5**
			MS6	**M22-WRS-MS6**	**M22S-WRS-MS6**	**M22M-WRS-MS6**
			MS7	**M22-WRS-MS7**	**M22S-WRS-MS7**	**M22M-WRS-MS7**
			MS8	**M22-WRS-MS8**	**M22S-WRS-MS8**	**M22M-WRS-MS8**

Notes

① Includes one key.
② Key removal positions can be modified in the field using coding adapters; see chart on **Page V7-T1-118**.
③ Includes contact block mounting adapter.
④ Momentary selector switches can be converted in the field to maintained operation with the removal of a color coded adapter. See **Page V7-T1-118**.

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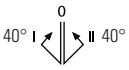
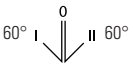
Key-Operated Selector Switches ①②
Components

M22-WS3-X93

M22M-WS3-X93

Operators Only, continued ③

Type	Switching Position	Key Removal Position	Key Code	Silver Bezel Catalog Number	Black Bezel Catalog Number	Metal Bezel Catalog Number
Three-position	Momentary ④ 	Return from left/right, key removable center	MS1	**M22-WS3**	**M22S-WS3**	**M22M-WS3**
			MS2	**M22-WS3-MS2**	**M22S-WS3-MS2**	**M22M-WS3-MS2**
			MS3	**M22-WS3-MS3**	**M22S-WS3-MS3**	**M22M-WS3-MS3**
			MS4	**M22-WS3-MS4**	**M22S-WS3-MS4**	**M22M-WS3-MS4**
			MS5	**M22-WS3-MS5**	**M22S-WS3-MS5**	**M22M-WS3-MS5**
			MS6	**M22-WS3-MS6**	**M22S-WS3-MS6**	**M22M-WS3-MS6**
			MS7	**M22-WS3-MS7**	**M22S-WS3-MS7**	**M22M-WS3-MS7**
			MS8	**M22-WS3-MS8**	**M22S-WS3-MS8**	**M22M-WS3-MS8**
Three-position	Maintained 	Key removable left/center/right	MS1	**M22-WRS3-A1**	**M22S-WRS3-A1**	**M22M-WRS3-A1**
			MS2	**M22-WRS3-MS2-A1**	**M22S-WRS3-MS2-A1**	**M22M-WRS3-MS2-A1**
			MS3	**M22-WRS3-MS3-A1**	**M22S-WRS3-MS3-A1**	**M22M-WRS3-MS3-A1**
			MS4	**M22-WRS3-MS4-A1**	**M22S-WRS3-MS4-A1**	**M22M-WRS3-MS4-A1**
			MS5	**M22-WRS3-MS5-A1**	**M22S-WRS3-MS5-A1**	**M22M-WRS3-MS5-A1**
			MS6	**M22-WRS3-MS6-A1**	**M22S-WRS3-MS6-A1**	**M22M-WRS3-MS6-A1**
			MS7	**M22-WRS3-MS7-A1**	**M22S-WRS3-MS7-A1**	**M22M-WRS3-MS7-A1**
			MS8	**M22-WRS3-MS8-A1**	**M22S-WRS3-MS8-A1**	**M22M-WRS3-MS8-A1**
		Key removable center/left	MS1	**M22-WRS3-A2**	**M22S-WRS3-A2**	**M22M-WRS3-A2**
			MS2	**M22-WRS3-MS2-A2**	**M22S-WRS3-MS2-A2**	**M22M-WRS3-MS2-A2**
			MS3	**M22-WRS3-MS3-A2**	**M22S-WRS3-MS3-A2**	**M22M-WRS3-MS3-A2**
			MS4	**M22-WRS3-MS4-A2**	**M22S-WRS3-MS4-A2**	**M22M-WRS3-MS4-A2**
			MS5	**M22-WRS3-MS5-A2**	**M22S-WRS3-MS5-A2**	**M22M-WRS3-MS5-A2**
			MS6	**M22-WRS3-MS6-A2**	**M22S-WRS3-MS6-A2**	**M22M-WRS3-MS6-A2**
			MS7	**M22-WRS3-MS7-A2**	**M22S-WRS3-MS7-A2**	**M22M-WRS3-MS7-A2**
			MS8	**M22-WRS3-MS8-A2**	**M22S-WRS3-MS8-A2**	**M22M-WRS3-MS8-A2**
		Key removable center/right	MS1	**M22-WRS3-A3**	**M22S-WRS3-A3**	**M22M-WRS3-A3**
			MS2	**M22-WRS3-MS2-A3**	**M22S-WRS3-MS2-A3**	**M22M-WRS3-MS2-A3**
			MS3	**M22-WRS3-MS3-A3**	**M22S-WRS3-MS3-A3**	**M22M-WRS3-MS3-A3**
			MS4	**M22-WRS3-MS4-A3**	**M22S-WRS3-MS4-A3**	**M22M-WRS3-MS4-A3**
			MS5	**M22-WRS3-MS5-A3**	**M22S-WRS3-MS5-A3**	**M22M-WRS3-MS5-A3**
			MS6	**M22-WRS3-MS6-A3**	**M22S-WRS3-MS6-A3**	**M22M-WRS3-MS6-A3**
			MS7	**M22-WRS3-MS7-A3**	**M22S-WRS3-MS7-A3**	**M22M-WRS3-MS7-A3**
			MS8	**M22-WRS3-MS8-A3**	**M22S-WRS3-MS8-A3**	**M22M-WRS3-MS8-A3**
		Key removable left/right	MS1	**M22-WRS3**	**M22S-WRS3**	**M22M-WRS3**
			MS2	**M22-WRS3-MS2**	**M22S-WRS3-MS2**	**M22M-WRS3-MS2**
			MS3	**M22-WRS3-MS3**	**M22S-WRS3-MS3**	**M22M-WRS3-MS3**
			MS4	**M22-WRS3-MS4**	**M22S-WRS3-MS4**	**M22M-WRS3-MS4**
			MS5	**M22-WRS3-MS5**	**M22S-WRS3-MS5**	**M22M-WRS3-MS5**
			MS6	**M22-WRS3-MS6**	**M22S-WRS3-MS6**	**M22M-WRS3-MS6**
			MS7	**M22-WRS3-MS7**	**M22S-WRS3-MS7**	**M22M-WRS3-MS7**
			MS8	**M22-WRS3-MS8**	**M22S-WRS3-MS8**	**M22M-WRS3-MS8**

Notes

① Includes one key.

② Key removal positions can be modified in the field using coding adapters; see chart on **Page V7-T1-118**.

③ Includes contact block mounting adapter.

④ Momentary selector switches can be converted in the field to maintained operation with the removal of a color coded adapter. See **Page V7-T1-118**.

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Key-Operated Selector Switches ①②

Components

M22-WS3-X93

M22M-WS3-X93

Operators Only, continued ③

Type	Switching Position	Key Removal Position	Key Code	Silver Bezel Catalog Number	Black Bezel Catalog Number	Metal Bezel Catalog Number
Three-position	Maintained 60° I 0 II 60°	Return from left, key removable center	MS1	**M22-WRS3-A7**	**M22S-WRS3-A7**	**M22M-WRS3-A7**
			MS2	**M22-WRS3-MS2-A7**	**M22S-WRS3-MS2-A7**	**M22M-WRS3-MS2-A7**
			MS3	**M22-WRS3-MS3-A7**	**M22S-WRS3-MS3-A7**	**M22M-WRS3-MS3-A7**
			MS4	**M22-WRS3-MS4-A7**	**M22S-WRS3-MS4-A7**	**M22M-WRS3-MS4-A7**
			MS5	**M22-WRS3-MS5-A7**	**M22S-WRS3-MS5-A7**	**M22M-WRS3-MS5-A7**
			MS6	**M22-WRS3-MS6-A7**	**M22S-WRS3-MS6-A7**	**M22M-WRS3-MS6-A7**
			MS7	**M22-WRS3-MS7-A7**	**M22S-WRS3-MS7-A7**	**M22M-WRS3-MS7-A7**
			MS8	**M22-WRS3-MS8-A7**	**M22S-WRS3-MS8-A7**	**M22M-WRS3-MS8-A7**
		Return from left, key removable center/right	MS1	**M22-WRS3-A6**	**M22S-WRS3-A6**	**M22M-WRS3-A6**
			MS2	**M22-WRS3-MS2-A6**	**M22S-WRS3-MS2-A6**	**M22M-WRS3-MS2-A6**
			MS3	**M22-WRS3-MS3-A6**	**M22S-WRS3-MS3-A6**	**M22M-WRS3-MS3-A6**
			MS4	**M22-WRS3-MS4-A6**	**M22S-WRS3-MS4-A6**	**M22M-WRS3-MS4-A6**
			MS5	**M22-WRS3-MS5-A6**	**M22S-WRS3-MS5-A6**	**M22M-WRS3-MS5-A6**
			MS6	**M22-WRS3-MS6-A6**	**M22S-WRS3-MS6-A6**	**M22M-WRS3-MS6-A6**
			MS7	**M22-WRS3-MS7-A6**	**M22S-WRS3-MS7-A6**	**M22M-WRS3-MS7-A6**
			MS8	**M22-WRS3-MS8-A6**	**M22S-WRS3-MS8-A6**	**M22M-WRS3-MS8-A6**
Three-position	Maintained 60° I 0 II 60°	Return from right, key removable left/ center	MS1	**M22-WRS3-A4**	**M22S-WRS3-A4**	**M22M-WRS3-A4**
			MS2	**M22-WRS3-MS2-A4**	**M22S-WRS3-MS2-A4**	**M22M-WRS3-MS2-A4**
			MS3	**M22-WRS3-MS3-A4**	**M22S-WRS3-MS3-A4**	**M22M-WRS3-MS3-A4**
			MS4	**M22-WRS3-MS4-A4**	**M22S-WRS3-MS4-A4**	**M22M-WRS3-MS4-A4**
			MS5	**M22-WRS3-MS5-A4**	**M22S-WRS3-MS5-A4**	**M22M-WRS3-MS5-A4**
			MS6	**M22-WRS3-MS6-A4**	**M22S-WRS3-MS6-A4**	**M22M-WRS3-MS6-A4**
			MS7	**M22-WRS3-MS7-A4**	**M22S-WRS3-MS7-A4**	**M22M-WRS3-MS7-A4**
			MS8	**M22-WRS3-MS8-A4**	**M22S-WRS3-MS8-A4**	**M22M-WRS3-MS8-A4**
		Return from right, key removable center	MS1	**M22-WRS3-A5**	**M22S-WRS3-A5**	**M22M-WRS3-A5**
			MS2	**M22-WRS3-MS2-A5**	**M22S-WRS3-MS2-A5**	**M22M-WRS3-MS2-A5**
			MS3	**M22-WRS3-MS3-A5**	**M22S-WRS3-MS3-A5**	**M22M-WRS3-MS3-A5**
			MS4	**M22-WRS3-MS4-A5**	**M22S-WRS3-MS4-A5**	**M22M-WRS3-MS4-A5**
			MS5	**M22-WRS3-MS5-A5**	**M22S-WRS3-MS5-A5**	**M22M-WRS3-MS5-A5**
			MS6	**M22-WRS3-MS6-A5**	**M22S-WRS3-MS6-A5**	**M22M-WRS3-MS6-A5**
			MS7	**M22-WRS3-MS7-A5**	**M22S-WRS3-MS7-A5**	**M22M-WRS3-MS7-A5**
			MS8	**M22-WRS3-MS8-A5**	**M22S-WRS3-MS8-A5**	**M22M-WRS3-MS8-A5**

Notes

① Includes one key.

② Key removal positions can be modified in the field using coding adapters; see chart on **Page V7-T1-118**.

③ Includes contact block mounting adapter.

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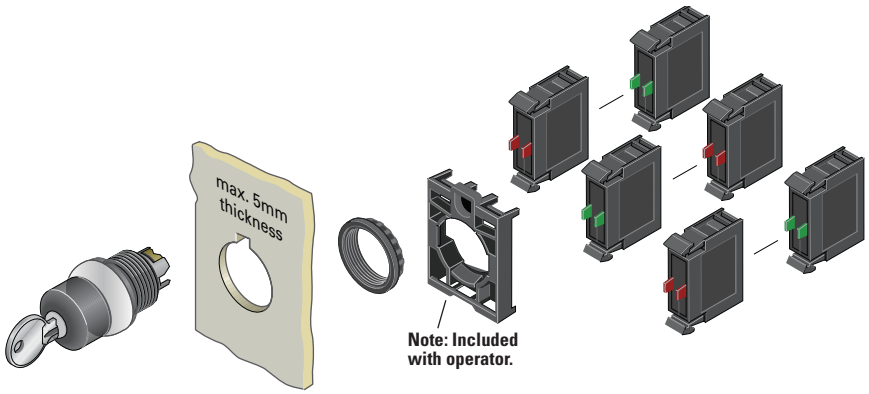
Key-Operated Selector Switches



Components

M22-K10

Contact Blocks ①

Terminal Type	Contact Configuration ②	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-ES-MS1

Extra Keys

Key Code	Catalog Number
MS1	**M22-ES-MS1**
MS2	**M22-ES-MS2**
MS3	**M22-ES-MS3**
MS4	**M22-ES-MS4**
MS5	**M22-ES-MS5**
MS6	**M22-ES-MS6**
MS7	**M22-ES-MS7**
MS8	**M22-ES-MS8**

Accessories

	Description	Catalog Number
M22-XW	Plunger bridge ③	**M22-XW**
M22-XWS	Key cover	**M22-XWS**
M22-XC-R	Key withdraw adapter ④	**M22-XC-R**
M22-XC-Y	Coding adapter	**M22-XC-Y**
M22-XGWK	Guard ring	**M22-XGWK**

Notes

① For complete listing of available contact blocks, see Accessories, **Pages V7-T1-111** to **V7-T1-116**.
② All NC contact blocks are positively driven contact. ⊖
③ Plunger needed to actuate center-mounted contact blocks. Used for non-illuminated three-position selector switches only.
④ Enables a keyed selector switch to be set to user-selected key withdraw position.

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Mushroom Head Pushbuttons

Product Description

Eaton's M22 mushroom head operators are a durable and unique way to include standard pushbutton functionality. Like the standard pushbutton line, the maintained pushbuttons are field convertible to momentary. They also offer laser engraving and a robust five million mechanical operations on the standard momentary operator. As with all operators, they can be ordered as a ready to install complete device or as modular components.

Features

- Field convertible from maintained to momentary (available on maintained pushbuttons only)
- Customizable laser engraving on all buttons
- More than five million mechanical operations on momentary and one million on maintained pushbuttons
- Modular construction makes assembly fast and simplifies stocking of components and complete devices
- Capable of communicating via ASi protocol with ASi adapter modules

Protection Type

- IP67, IP69K
- NEMA 4X, 13

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Catalog Number Selection

Catalog Number Selection is for illustrative purposes only and not to be used to create new catalog numbers.

Mushroom Head Pushbuttons

M22 – DP – R – GB4 – K01

Bezel
- **M22** = Silver
- **M22S** = Black
- **M22M** = Metal

Operator Type
- **DP** = Non-illuminated momentary mushroom head pushbutton
- **DRP** = Non-illuminated maintained mushroom head pushbutton

Operator Color
- **R** = Red
- **S** = Black
- **G** = Green
- **Y** = Yellow

Plate Inscription

ETCH = Custom ①	**X0** = ◎
GB0 = STOP	**X1** = ⓘ
GB1 = START	**X4** = ⊕
GB3 = UP	**X5** = ⊖
GB4 = DOWN	**X6** = Ⓡ
GB5 = OFF	**X7** = ⓣ
GB6 = ON	
GB15 = FORWARD	
GB16 = REVERSE	

① 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-DP-R-ETCH; Order Notes: Mark with symbol X91, Line item #_.

Contact Blocks
- **K01** = NC
- **K10** = NO
- **K11** = NO-NC
- **K12** = 1NO-2NC

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Product Selection

Mushroom Head Pushbuttons, Momentary ①

M22-DP-R-K01

M22S-DP-R-K01

M22M-DP-R-K01

Complete Devices

Button Color	Contact Block Configuration ②	Silver Bezel Catalog Number	Black Bezel Catalog Number	Metal Bezel Catalog Number
Red	NC	**M22-DP-R-K01**	**M22S-DP-R-K01**	**M22M-DP-R-K01**
	2NC	**M22-DP-R-K02**	**M22S-DP-R-K02**	**M22M-DP-R-K02**
	1NO-2NC	**M22-DP-R-K12**	**M22S-DP-R-K12**	**M22M-DP-R-K12**
	1NO-1NC	**M22-DP-R-K11**	**M22S-DP-R-K11**	**M22M-DP-R-K11**

M22-DP-G

M22S-DP-G

M22M-DP-G

Operators Only ②

Button Color	Silver Bezel Catalog Number	Black Bezel Catalog Number	Metal Bezel Catalog Number
Black	**M22-DP-S**	**M22S-DP-S**	**M22M-DP-S**
Red	**M22-DP-R**	**M22S-DP-R**	**M22M-DP-R**
Green	**M22-DP-G**	**M22S-DP-G**	**M22M-DP-G**
Yellow	**M22-DP-Y**	**M22S-DP-Y**	**M22M-DP-Y**

Notes

① 35 mm diameter mushroom head button.

② Includes contact block mounting adapter. ⊖

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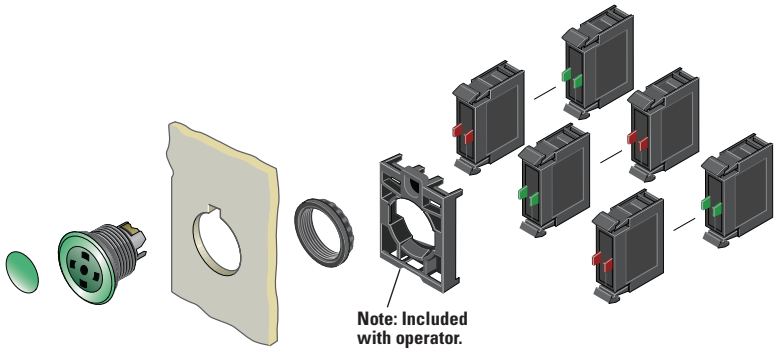
Non-Illuminated Mushroom Head Pushbuttons, Momentary ①



Components

Mushroom Head Plates

M22-XDP-G

Color	Inscription	Catalog Number
Black	——	**M22-XDP-S** ②
	Custom	**M22-XDP-S-ETCH** ③
	STOP	**M22-XDP-S-GB0**
	START	**M22-XDP-S-GB1**
	FORWARD	**M22-XDP-S-GB15**
	REVERSE	**M22-XDP-S-GB16**
	UP	**M22-XDP-S-GB3**
	DOWN	**M22-XDP-S-GB4**
	OFF	**M22-XDP-S-GB5**
	ON	**M22-XDP-S-GB6**
	◎	**M22-XDP-S-X0**
	⏽	**M22-XDP-S-X1**
	⊕	**M22-XDP-S-X4**
	⊖	**M22-XDP-S-X5**
	⏽	**M22-XDP-S-X7**
Red	—	**M22-XDP-R** ②
	Custom	**M22-XDP-R-ETCH** ③
	STOP	**M22-XDP-R-GB0**
	OFF	**M22-XDP-R-GB5**
	◎	**M22-XDP-R-X0**
Green	—	**M22-XDP-G** ②
	Custom	**M22-XDP-G-ETCH** ③
	START	**M22-XDP-G-GB1**
	ON	**M22-XDP-G-GB6**
	◎	**M22-XDP-G-X0**
	⏽	**M22-XDP-G-X1**
White	—	**M22-XDP-W** ②
	Custom	**M22-XDP-W-ETCH** ③
Yellow	—	**M22-XDP-Y** ②
	Custom	**M22-XDP-Y-ETCH** ③

Insertless Mushroom Head Operators

M22-DP-G-X

Bezel	Color	Catalog Number
Silver	Black	**M22-DP-S-X**
	Red	**M22-DP-R-X**
	Green	**M22-DP-G-X**
	Yellow	**M22-DP-Y-X**
Black	Black	**M22S-DP-S-X**
	Red	**M22S-DP-R-X**
	Green	**M22S-DP-G-X**
	Yellow	**M22S-DP-Y-X**
Metal	Black	**M22M-DP-S-X**
	Red	**M22M-DP-R-X**
	Green	**M22M-DP-G-X**
	Yellow	**M22M-DP-Y-X**

Contact Blocks ④

M22-K10

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 35 mm diameter mushroom head button.
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-XDP-S-ETCH; Order Notes: Mark with symbol X91, Line item #_.
④ For complete listing of available contact blocks, see Accessories, **Pages V7-T1-111** to **V7-T1-116**.
⑤ All NC contact blocks are positively driven contact. ⊖

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Product Selection

Non-Illuminated Mushroom Head Pushbuttons, Maintained ① ②

M22-DRP-R-K01

M22S-DRP-R-K01

M22M-DRP-R-K01

Complete Devices

Button Color	Contact Block Configuration ②	Silver Bezel Catalog Number	Black Bezel Catalog Number	Metal Bezel Catalog Number
Red	NC	**M22-DRP-R-K01**	**M22S-DRP-R-K01**	**M22M-DRP-R-K01**
	2NC	**M22-DRP-R-K02**	**M22S-DRP-R-K02**	**M22M-DRP-R-K02**
	1NO-2NC	**M22-DRP-R-K12**	**M22S-DRP-R-K12**	**M22M-DRP-R-K12**
	1NO-1NC	**M22-DRP-R-K11**	**M22S-DRP-R-K11**	**M22M-DRP-R-K11**

M22-DRP-G

M22S-DRP-G

M22M-DRP-G

Operators Only

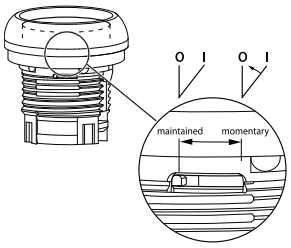
Button Color	Silver Bezel Catalog Number	Black Bezel Catalog Number	Metal Bezel Catalog Number
Black	**M22-DRP-S**	**M22S-DRP-S**	**M22M-DRP-S**
Red	**M22-DRP-R**	**M22S-DRP-R**	**M22M-DRP-R**
Green	**M22-DRP-G**	**M22S-DRP-G**	**M22M-DRP-G**
Yellow	**M22-DRP-Y**	**M22S-DRP-Y**	**M22M-DRP-Y**

Notes

① 35 mm diameter mushroom head button.

② Maintained pushbuttons can be converted in the field to momentary operation by switching the locking ring, which is accessible through the side of the operator body.

③ All NC contact blocks are positively driven contact. ⊖



Note: This pilot device features a selectable function switch that enables the device to be set to either maintained or momentary operation.

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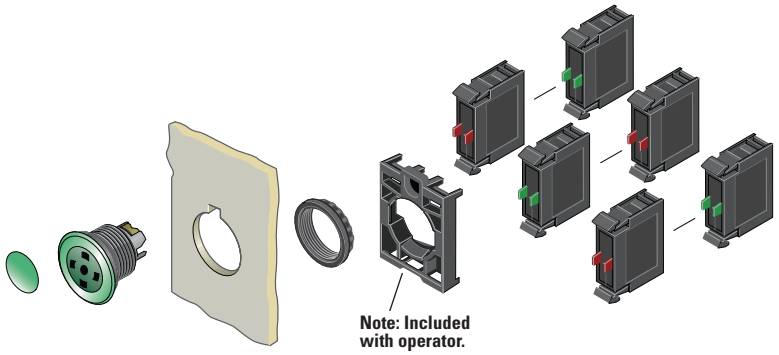
Non-Illuminated Mushroom Head Pushbuttons, Maintained ①②



Components

M22-XDP-G

Mushroom Head Plates ⑤

Color	Inscription	Catalog Number
Black	—	**M22-XDP-S** ③
	Custom	**M22-XDP-S-ETCH** ④
	STOP	**M22-XDP-S-GB0**
	START	**M22-XDP-S-GB1**
	FORWARD	**M22-XDP-S-GB15**
	REVERSE	**M22-XDP-S-GB16**
	UP	**M22-XDP-S-GB3**
	DOWN	**M22-XDP-S-GB4**
	OFF	**M22-XDP-S-GB5**
	ON	**M22-XDP-S-GB6**
	◎	**M22-XDP-S-X0**
	⏽	**M22-XDP-S-X1**
	⊕	**M22-XDP-S-X4**
	⊖	**M22-XDP-S-X5**
	⏽	**M22-XDP-S-X7**
Red	—	**M22-XDP-R** ③
	Custom	**M22-XDP-R-ETCH** ④
	STOP	**M22-XDP-R-GB0**
	OFF	**M22-XDP-R-GB5**
	◎	**M22-XDP-R-X0**
Green	—	**M22-XDP-G** ③
	Custom	**M22-XDP-G-ETCH** ④
	START	**M22-XDP-G-GB1**
	ON	**M22-XDP-G-GB6**
	◎	**M22-XDP-G-X0**
	⏽	**M22-XDP-G-X1**
White	—	**M22-XDP-W** ③
	Custom	**M22-XDP-W-ETCH** ④
Yellow	—	**M22-XDP-Y** ③
	Custom	**M22-XDP-Y-ETCH** ④

M22-DRP-G-X

Insertless Mushroom Head Operators

Bezel	Color	Catalog Number
Silver	Black	**M22-DRP-S-X**
	Red	**M22-DRP-R-X**
	Green	**M22-DRP-G-X**
	Yellow	**M22-DRP-Y-X**
Black	Black	**M22S-DRP-S-X**
	Red	**M22S-DRP-R-X**
	Green	**M22S-DRP-G-X**
	Yellow	**M22S-DRP-Y-X**
Metal	Black	**M22M-DRP-S-X**
	Red	**M22M-DRP-R-X**
	Green	**M22M-DRP-G-X**
	Yellow	**M22M-DRP-Y-X**

M22-K10

Contact Blocks ⑤

Terminal Type	Contact Configuration ⑥	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 35 mm diameter mushroom head button.

② Maintained pushbuttons can be converted in the field to momentary operation by switching the locking ring, which is accessible through the side of the operator body.

③ Minimum order quantity of (10).

④ 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-XDP-S-ETCH; Order Notes: Mark with symbol X91, Line item #_.

⑤ For complete listing of available button plates and contact blocks, see Accessories, **Pages V7-T1-111** to **V7-T1-116**.

⑥ All NC contact blocks are positively driven contact. ⊖

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Double Pushbuttons

Product Description

Eaton's M22 double pushbutton line is perfect for applications such as motor and pump starting, as well as anytime space is limited. In addition to the two buttons that fit in one 22 mm hole is the integrated white indicating light between them. These three operators allow for multiple functions to occur in a single space. Green/red, black/white and black/black color options along with laser engraving allow for further custom applications.

Features

- Flush and extended, as well as color options allow for the perfect combination button
- Integrated indicating light adds even more functionality in one standard 22 mm hole
- Customizable laser engraving on all buttons
- LED offering only for improved brightness quality and up to 100,000 hours of operation
- More than 200,000 mechanical operations
- Capable of communicating via ASi protocol with ASi adapter modules

Protection Type

- IP66
- NEMA 4X, 13

Catalog Number Selection

Catalog Number Selection is for illustrative purposes only and not to be used to create new catalog numbers.

Double Pushbuttons

M22 – DDL – GR – GB5 – K10 – G

Bezel
M22 = Silver
M22S = Black

Operator Type
DDL = Extended buttons and light
DDLF = Flush buttons and light
DDLM = Extended bottom button

Button Plate Color	Top	Bottom
GR =	Green	Red
WS =	White	Black
S =	Black	Black

Inscription
GB0 = STOP
GB1 = START
GB3 = UP
GB4 = DOWN
GB5 = OFF
GB6 = ON
GB14 = RESET
GB15 = FORWARD
GB16 = REVERSE
X0 = ◎
X1 = ⓘ
X5 = ⊕
X5 = ⊖
X6 = Ⓡ
X7 = ⓣ
X5 = ⊘

Contact Blocks	
K10 = 1NO	**K30** = 3NO
K01 = 1NC	**K03** = 3NC
K20 = 2NO	**K21** = 2NO-1NC
K02 = 2NC	**K12** = 1NO-2NC
K11 = 1NO-1NC	

Light Units
12–30 Vac/Vdc
W = White
R = Red
G = Green
B = Blue
85–264 Vac
230W = White
230R = Red
230G = Green
230B = Blue

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Product Selection

Components

Double Pushbuttons, Extended Pushbuttons and Center Light, Momentary

Operators Only [1]

	Bezel	Color Top	Bottom	Inscription Top	Bottom	Catalog Number
M22-DDL-GR-GB1-GB0	Silver	Green	Red	—	—	**M22-DDL-GR**
				Custom	Custom	**M22-DDL-GR-ETCH** [2]
				ⓘ	◎	**M22-DDL-GR-X1-X0**
				START	STOP	**M22-DDL-GR-GB1-GB0**
		White	Black	—	—	**M22-DDL-WS**
				Custom	Custom	**M22-DDL-WS-ETCH** [2]
				ⓘ	◎	**M22-DDL-WS-X1-X0**
				START	STOP	**M22-DDL-WS-GB1-GB0**
		Black	Black	—	—	**M22-DDL-S**
				Custom	Custom	**M22-DDL-S-ETCH** [2]
				—	—	**M22-DDL-S-X4-X5**
				ⓘ	ⓘ	**M22-DDL-S-X7-X7**
M22S-DDL-GR-X1-X0	Black	Green	Red	—	—	**M22S-DDL-GR**
				Custom	Custom	**M22S-DDL-GR-ETCH** [2]
				ⓘ	◎	**M22S-DDL-GR-X1-X0**
				START	STOP	**M22S-DDL-GR-GB1-GB0**
		White	Black	—	—	**M22S-DDL-WS**
				Custom	Custom	**M22S-DDL-WS-ETCH** [2]
				ⓘ	◎	**M22S-DDL-WS-X1-X0**
				START	STOP	**M22S-DDL-WS-GB1-GB0**
		Black	Black	—	—	**M22S-DDL-S**
				Custom	Custom	**M22S-DDL-S-ETCH** [2]
				⊕	—	**M22S-DDL-S-X4-X5**
				ⓘ	ⓘ	**M22S-DDL-S-X7-X7**

Notes

[1] Includes contact block mounting adapter.

[2] 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-DDL-S-ETCH; Order Notes: Mark with symbol X91, Line item #_.

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Double Pushbuttons, Flush Top Pushbuttons and Center Light, Momentary

Operators Only ①

	Bezel	Color Top	Bottom	Inscription Top	Bottom	Catalog Number
M22-DDLF-GR	Silver	Green	Red	—	—	**M22-DDLF-GR**
				Custom	Custom	**M22-DDLF-GR-ETCH** ②
		White	Black	—	—	**M22-DDLF-WS**
				Custom	Custom	**M22-DDLF-WS-ETCH** ②
		Green	Red	ⓘ	◎	**M22-DDLF-GR-X1-X0**
		White	Black	ⓘ	◎	**M22-DDLF-WS-X1-X0**
M22S-DDLF-GR-X1-X0	Black	Green	Red	—	—	**M22S-DDLF-GR**
				Custom	Custom	**M22S-DDLF-GR-ETCH** ②
		White	Black	—	—	**M22S-DDLF-WS**
				Custom	Custom	**M22S-DDLF-WS-ETCH** ②
		Green	Red	ⓘ	◎	**M22S-DDLF-GR-X1-X0**
		White	Black	ⓘ	◎	**M22S-DDLF-WS-X1-X0**

Double Pushbuttons, Flush Top Pushbutton and Center Light, Extended Bottom Pushbutton, Momentary

Operators Only ①

	Bezel	Color Top	Bottom	Inscription Top	Bottom	Catalog Number
M22-DDLM-GR	Silver	Green	Red	—	—	**M22-DDLM-GR**
				Custom	Custom	**M22-DDLM-GR-ETCH** ②
		White	Black	—	—	**M22-DDLM-WS**
				Custom	Custom	**M22-DDLM-WS-ETCH** ②
		Green	Red	ⓘ	◎	**M22-DDLM-GR-X1-X0**
		White	Black	ⓘ	◎	**M22-DDLM-WS-X1-X0**
M22-DDLM-GR-X1-X0	Black	Green	Red	—	—	**M22S-DDLM-GR**
				Custom	Custom	**M22S-DDLM-GR-ETCH** ②
		White	Black	—	—	**M22S-DDLM-WS**
				Custom	Custom	**M22S-DDLM-WS-ETCH** ②
		Green	Red	ⓘ	◎	**M22S-DDLM-GR-X1-X0**
		White	Black	ⓘ	◎	**M22S-DDLM-WS-X1-X0**

Notes

① Includes contact block mounting adapter.

② 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-DDLM-GR-ETCH; Order Notes: Mark with symbol X91, Line item #_.

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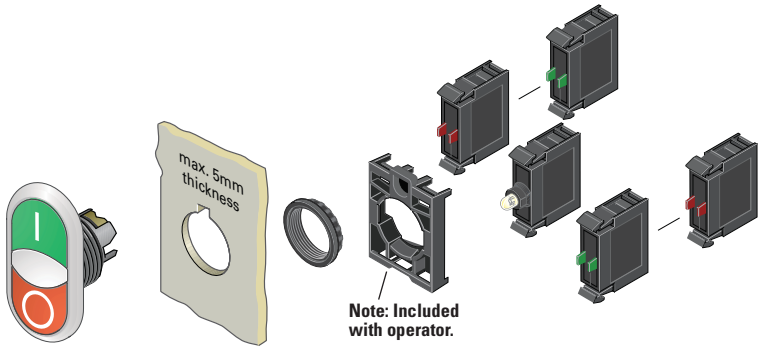
Double Pushbuttons



M22-LED-W

Light Units ①

Terminal Type	LED Color	Light Unit Voltage	Catalog Number
Screw	White	12–30 Vac/Vdc	**M22-LED-W**
		85–264 Vac	**M22-LED230-W**

M22-K10

Contact Blocks ①

Terminal Type	Contact Configuration ②	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 light units and contact blocks, see Accessories, **Pages V7-T1-111** to **V7-T1-116**.

② All NC contact blocks are positively driven contact. ⊖

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Four-Way Pushbuttons

Product Description

Eaton's M22 four-way pushbutton is a truly unique offering. A four-way pushbutton offers four different buttons mounted in a single 22 mm hole. This is ideal not only for an application with limited space, but also directional applications (when ordered with the four arrow engraving option). Another unique option is the interlocked version, which prevents two opposite buttons from being actuated at the same time.

Features

- Four buttons in one operator allows for increased functionality in limited space
- Optional interlocking option, which prevents two buttons from being actuated at the same time
- Customizable laser engraving on all buttons for directional or other applications
- Capable of communicating via ASi protocol with ASi adapter modules

Protection Type

- IP66

Catalog Number Selection

Catalog Number Selection is for illustrative purposes only and not to be used to create new catalog numbers.

Four-Way Pushbuttons

M22 – D4 – S – X7 – K01

Bezel
M22 = Silver
M22S = Black

Operator Type
D4 = Four-way pushbutton, momentary, non-interlocked
DI4 = Four-way pushbutton, momentary, interlocked

Button Color
S = Black

Inscription
ETCH = Custom ①
X7 = ⓘ⊖ⓘ⊖

① 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-D4-S-ETCH; Order Notes: Mark with symbol X91, Line item #_.

Contact Blocks	
K10 = 1NO	**K30** =3NO
K01 = 1NC	**K03** =3NC
K20 = 2NO	**K21** =2NO-1NC
K02 = 2NC	**K12** =1NO-2NC
K11 = 1NO-1NC	

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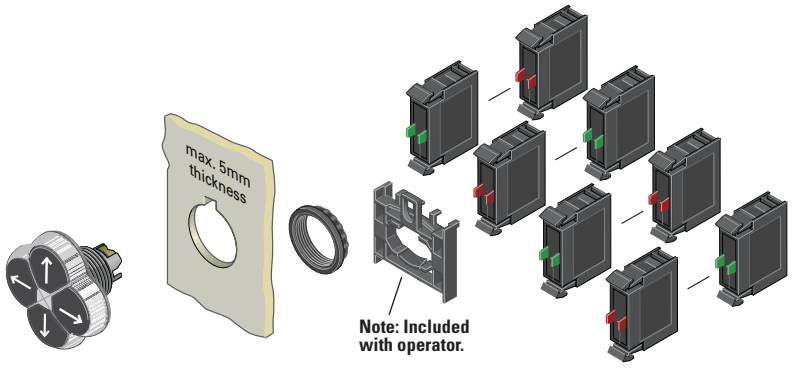
Product Selection

Four-Way Pushbuttons, Momentary



Components

M22-D4-S-X7

Operators Only ①

Type	Bezel	Color	Inscription	Catalog Number
Non-interlocked	Silver	Black	—	**M22-D4-S**
			Custom	**M22-D4-S-ETCH** ③
			Directional arrows	**M22-D4-S-X7**
	Black	Black	—	**M22S-D4-S**
			Custom	**M22S-D4-S-ETCH** ③
			Directional arrows	**M22S-D4-S-X7**
Interlocked	Silver	Black	—	**M22-DI4-S**
			Custom	**M22-DI4-S-ETCH** ③
			Directional arrows	**M22-DI4-S-X7**
	Black	Black	—	**M22S-DI4-S**
			Custom	**M22S-DI4-S-ETCH** ③
			Directional arrows	**M22S-DI4-S-X7**

M22-K10

Contact Blocks ②

Terminal Type	Contact Configuration ④	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 Includes contact block mounting adapter.
② For complete listing of available contact blocks, see Accessories, **Pages V7-T1-111** to **V7-T1-116**.
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-D4-S-ETCH; Order Notes: Mark with symbol X91, Line item #_.
④ All NC contact blocks are positively driven contact. ⊖

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Joysticks

Product Description

Eaton's M22 joystick line comes in a wide variety of options. From vertical and horizontal two-position switches to the maintained four-position, these operators fit a variety of applications. An additional option, two switch points, allows for eight isolated circuits to be actuated individually on a single operator.

Features

- Available in four-position and two-position
- Two switch point option allows for two contacts in each direction (up to eight total contacts in one operator)
- Capable of communicating via ASi protocol with ASi adapter modules

Protection Type

- IP66

Product Selection

Joysticks

Components

M22-WJ2H

M22M-WJ2H

Operators ①

Number of Directions	Switching Position	Silver Bezel Catalog Number	Black Bezel Catalog Number	Metal Bezel Catalog Number
Two-position horizontal	Momentary	**M22-WJ2H**	**M22S-WJ2H**	**M22M-WJ2H**
Two switch points		**M22-WJ2H-2P**	**M22S-WJ2H-2P**	**M22M-WJ2H-2P**
Two-position horizontal	Maintained	**M22-WRJ2H**	**M22S-WRJ2H**	**M22M-WRJ2H**
Two-position vertical	Momentary	**M22-WJ2V**	**M22S-WJ2V**	**M22M-WJ2V**
Two switch points		**M22-WJ2V-2P**	**M22S-WJ2V-2P**	**M22M-WJ2V-2P**
Two-position vertical	Maintained	**M22-WRJ2V**	**M22S-WRJ2V**	**M22M-WRJ2V**
Four-position	Momentary	**M22-WJ4**	**M22S-WJ4**	**M22M-WJ4**
Two switch points		**M22-WJ4-2P**	**M22S-WJ4-2P**	**M22M-WJ4-2P**
Four-position	Maintained	**M22-WRJ4**	**M22S-WRJ4**	**M22M-WRJ4**

Note

① Includes contact block mounting adapter.

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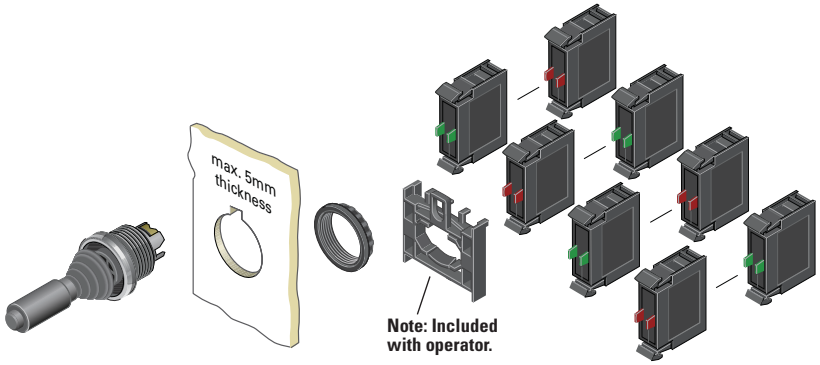
Joysticks



M22-K10

Contact Blocks ①②

Terminal Type	Contact Configuration ③	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

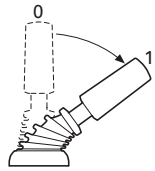
① Includes contact block mounting adapter.

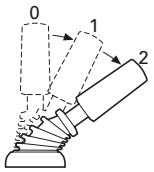
② For complete listing of available contact blocks, see Accessories, **Pages V7-T1-111** to **V7-T1-116**.

③ All NC contact blocks are positively driven contact.

Joystick with Double Contact

The joystick allows the control of up to four directions of movement on machines. Different variants of the joystick have two/four-positions and other variants have two settings for each position. This allows, for example, two-speed settings for each direction. For this application, a standard normally open contact and an early-make contact are fitted in series. Momentary contact and latching contact versions are available.





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Potentiometers

Product Description

Eaton's M22 potentiometers allow for a ready to use operator in a conveniently sized package. M22 potentiometers include the resistive element, instead of just a knob, and a built in legend surrounding the knob. The slim design, with integrated contacts and the range of resistances available, allows for a quick install.

Features

- Scale markings on the knob allows the operator to be used without an additional legend plate
- Oversized knob option available
- Slim design allows for space saving and simple wiring and installation

Protection Type

- IP66
- NEMA 4X, 13

Product Selection

Potentiometers

M22-R10K

M22M-R10K

Complete Devices

Bezel	Resistance Rk	Catalog Number
Silver	1	**M22-R1K**
	4.7	**M22-R4K7**
	10	**M22-R10K**
	47	**M22-R47K**
	100	**M22-R100K**
	470	**M22-R470K**
Black	1	**M22S-R1K**
	4.7	**M22S-R4K7**
	10	**M22S-R10K**
	47	**M22S-R47K**
	100	**M22S-R100K**
	470	**M22S-R470K**
Metal	1	**M22M-R1K**
	4.7	**M22M-R4K7**
	10	**M22M-R10K**
	47	**M22M-R47K**
	100	**M22M-R100K**
	470	**M22M-R470K**
Oversized Knob		
Silver	1	**M22-R1K-RH**
	4.7	**M22-R4K7-RH**
	10	**M22-R10K-RH**
	47	**M22-R47K-RH**
	100	**M22-R100K-RH**
	470	**M22-R470K-RH**
Black	1	**M22S-R1K-RH**
	4.7	**M22S-R4K7-RH**
	10	**M22S-R10K-RH**
	47	**M22S-R47K-RH**
	100	**M22S-R100K-RH**
	470	**M22S-R470K-RH**
Metal	1	**M22M-R1K-RH**
	4.7	**M22M-R4K7-RH**
	10	**M22M-R10K-RH**
	47	**M22M-R47K-RH**
	100	**M22M-R100K-RH**
	470	**M22M-R470K-RH**

Acoustic Devices

Product Description

Eaton's M22 acoustic devices are a simple and aesthetic way to add a buzzer or indicator to any application. Fitting in the same 22 mm hole, these devices can be ordered in continuous or pulsed tone and with or without the IP40 enclosure.

Features

- Continuous or pulsed tone available
- 83 dB / 10 cm decibel rating
- Slim design allows for space saving and simple wiring and installation

Protection Type

- IP40
- NEMA 12

Product Selection

Acoustic Devices

M22-AMC-XAM

Complete Devices

Description	Decibel Rating	Catalog Number
Indicator with buzzer, black continuous tone, 18–30 Vac/Vdc	83 dB/ 10 cm	**M22-AMC-XAM**
Indicator with buzzer, black pulsed tone, 18–30 Vac/Vdc	83 dB/ 10 cm	**M22-AMC-XAMP**

M22-XAM

Buzzers

Description	Decibel Rating	Catalog Number
Indicator without buzzer, black	83 dB/ 10 cm	**M22-AMC**
Buzzer only, continuous tone, 18–30 Vac/Vdc	83 dB/ 10 cm	**M22-XAM**
Buzzer only, pulsed tone, 18–30 Vac/Vdc	83 dB/ 10 cm	**M22-XAMP**

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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**
	Ⓡ	**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**
	Ⓡ	**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 ④⑤

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.

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ASi Adapter Modules

Product Description

Eaton's M22 ASi adapter modules add functionality to every operator in the M22 line. These devices can be connected to any operator that uses contact blocks or LED units. The simple snap-on design allows for a quick integration of an entire application of operators to a communicating network.

Features

- Allows compatible operators to communicate on an ASi network
- Not only can the status of a contact block be read, but LEDs can be illuminated by an ASi adapter
- ASi adapters simply clip on to the back of the contact blocks and LEDs
- Insulation displacement connectors allow for installation of adapters without any tools
- Two integrated LEDs indicate status of communications

Protection Type

- IP20

Product Selection

ASi Adapter Modules

M22-ASI

Complete Devices

Description	Catalog Number
ASi adapter module	**M22-ASI**
ASi adapter module for base mounting	**M22-ASI-C**
ASi adapter module for E-stop	**M22-ASI-S**
ASi adapter module for E-stop base mounting	**M22-ASI-CS**

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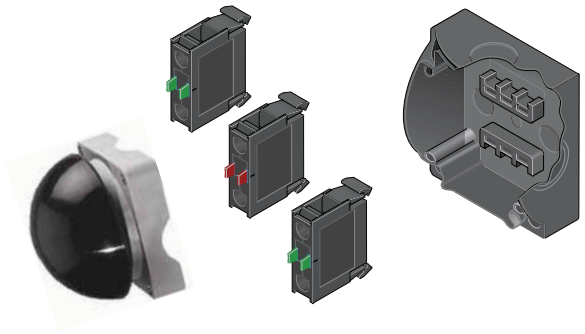
Palm Switches



Product Description

Eaton's M22 palm switches are an oversized button that mount directly to an enclosure base. This allows for a standalone button that can be mounted anywhere. The enclosure uses base-mounted contact blocks, which allows for quick wiring and mounting. The palm switches come in momentary or maintained versions. As with other M22 operators, the palm switches are available as complete devices, including the enclosure and contact blocks or as modular components.

Features

- Oversized operator in black, red and yellow color options
- Button integrated directly into an enclosure
- Base mounting contact blocks allow for simple wiring and installation
- More than one million mechanical operations on momentary and 100,000 on maintained operators

Protection Type

- IP67, IP69K
- NEMA 4X, 13

Catalog Number Selection

Catalog Number Selection is for illustrative purposes only and not to be used to create new catalog numbers.

Palm Switches, Type 4X/13 Enclosure

FAK – S – KC10 – I

Operator Type	Operator Color	Contact Blocks	Enclosure Top Color
FAK = Palm switch	**S** = Black **R** = Red **Y** = Yellow	**KC10** = NO **KC01** = NC **CKC10** = NO **CKC01** = NC	**I** = Gray **IY** = Yellow

Product Selection

Complete Devices

Operator, Base and Contact Blocks ①

	Button Color	Contact Block Configuration ②	Catalog Number
FAK-S-KC11-I	**Momentary**		
	Black	1NO-1NC	**FAK-S-KC11-I**
	Red	1NO-1NC	**FAK-R-KC11-I**
	Yellow	1NO-1NC	**FAK-Y-KC11-I**
FAK-R-V-KC01-IY	**Maintained**		
	Red	NC	**FAK-R-V-KC01-IY**
		2NC	**FAK-R-V-KC02-IY**
		1NO-2NC	**FAK-R-V-KC12-IY**
		1NO-1NC	**FAK-R-V-KC11-IY**

Notes

① For complete listing of available contact blocks, see Accessories, **Pages V7-T1-111** to **V7-T1-116**.

② All NC contact blocks are positively driven contact. ⊖

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Components

FAK-S

Operators Only

Type	Button Color	Catalog Number
Momentary	Black	**FAK-S**
	Red	**FAK-R**
	Yellow	**FAK-Y**
Maintained	Red	**FAK-R-V-Y**

FAK-IU

Palm Switch Enclosure Base

Catalog Number
FAK-IU

M22-KC10

Contact Blocks ①

Terminal Type	Contact Configuration ②	Catalog Number
Screw	NO	**M22-KC10**
	NC	**M22-KC01**
Spring-cage	NO	**M22-CKC10**
	NC	**M22-CKC01**

Notes

① For complete listing of available contact blocks, see Accessories, **Pages V7-T1-111** to **V7-T1-116**.

② All NC contact blocks are positively driven contact. ⊖

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Accessories

M22-XD-S

M22-XDH-R

M22-XDP-G

Button Plates

Color	Inscription	Catalog Number Flush Pushbutton	Catalog Number Extended Pushbutton	Catalog Number Mushroom Head Button
Black	—	**M22-XD-S**	**M22-XDH-S**	**M22-XDP-S**
White	—	**M22-XD-W**	**M22-XDH-W**	**M22-XDP-W**
Red	—	**M22-XD-R**	**M22-XDH-R**	**M22-XDP-R**
Green	—	**M22-XD-G**	**M22-XDH-G**	**M22-XDP-G**
Yellow	—	**M22-XD-Y**	**M22-XDH-Y**	**M22-XDP-Y**
Blue	—	**M22-XD-B**	**M22-XDH-B**	—
Black, white, red, green, yellow, blue	—	**M22-XD-SWRGYB**	**M22-XDH-SWRGYB**	—
Black, red, green	—	**M22-XD-SRG**	**M22-XDH-SRG**	—
Black	Custom	**M22-XD-S-ETCH**	**M22-XDH-S-ETCH**	**M22-XDP-S-ETCH**
White	Custom	**M22-XD-W-ETCH**	**M22-XDH-W-ETCH**	**M22-XDP-W-ETCH**
Red	Custom	**M22-XD-R-ETCH**	**M22-XDH-R-ETCH**	**M22-XDP-R-ETCH**
Green	Custom	**M22-XD-G-ETCH**	**M22-XDH-G-ETCH**	**M22-XDP-G-ETCH**
Yellow	Custom	**M22-XD-Y-ETCH**	**M22-XDH-Y-ETCH**	**M22-XDP-Y-ETCH**
Blue	Custom	**M22-XD-B-ETCH**	**M22-XDH-B-ETCH**	—
Black	STOP	**M22-XD-S-GB0**	**M22-XDH-S-GB0**	**M22-XDP-S-GB0**
Red	STOP	**M22-XD-R-GB0**	**M22-XDH-R-GB0**	**M22-XDP-R-GB0**
Black	START	**M22-XD-S-GB1**	**M22-XDH-S-GB1**	**M22-XDP-S-GB1**
White	START	**M22-XD-W-GB1**	**M22-XDH-W-GB1**	—
Green	START	**M22-XD-G-GB1**	**M22-XDH-G-GB1**	**M22-XDP-G-GB1**
Black	CLOSE	**M22-XD-S-GB2**	**M22-XDH-S-GB2**	—
Black	UP	**M22-XD-S-GB3**	**M22-XDH-S-GB3**	**M22-XDP-S-GB3**
Black	DOWN	**M22-XD-S-GB4**	**M22-XDH-S-GB4**	**M22-XDP-S-GB4**
Black	OFF	**M22-XD-S-GB5**	**M22-XDH-S-GB5**	**M22-XDP-S-GB5**
Red	OFF	**M22-XD-R-GB5**	**M22-XDH-R-GB5**	**M22-XDP-R-GB5**
Black	ON	**M22-XD-S-GB6**	**M22-XDH-S-GB6**	**M22-XDP-S-GB6**
Green	ON	**M22-XD-G-GB6**	**M22-XDH-G-GB6**	**M22-XDP-G-GB6**
Black	TEST	**M22-XD-S-GB9**	**M22-XDH-S-GB9**	—
Blue	RESET	**M22-XD-B-GB14**	**M22-XDH-B-GB14**	—
Black	FORWARD	**M22-XD-S-GB15**	**M22-XDH-S-GB15**	**M22-XDP-S-GB15**
Black	REVERSE	**M22-XD-S-GB16**	**M22-XDH-S-GB16**	**M22-XDP-S-GB16**
Black	RAISE	**M22-XD-S-GB17**	**M22-XDH-S-GB17**	—
Black	LOWER	**M22-XD-S-GB18**	**M22-XDH-S-GB18**	—
Black	◎	**M22-XD-S-X0**	**M22-XDH-S-X0**	**M22-XDP-S-X0**
Red	◎	**M22-XD-R-X0**	**M22-XDH-R-X0**	**M22-XDP-R-X0**
Green	◎	—	—	**M22-XDP-G-X0**
Black	Ⓘ	**M22-XD-S-X1**	**M22-XDH-S-X1**	**M22-XDP-S-X1**
White	Ⓘ	**M22-XD-W-X1**	**M22-XDH-W-X1**	—
Green	Ⓘ	**M22-XD-G-X1**	**M22-XDH-G-X1**	**M22-XDP-G-X1**
Black	Ⓘ	**M22-XD-S-X2**	**M22-XDH-S-X2**	—
Green	Ⓘ	**M22-XD-G-X2**	**M22-XDH-G-X2**	—
Black	⊕	**M22-XD-S-X4**	**M22-XDH-S-X4**	**M22-XDP-S-X4**
Black	⊖	**M22-XD-S-X5**	**M22-XDH-S-X5**	**M22-XDP-S-X5**
Blue	Ⓡ	**M22-XD-B-X6**	**M22-XDH-B-X6**	—
Black	ⓣ	**M22-XD-S-X7**	**M22-XDH-S-X7**	**M22-XDP-S-X7**
Black	ⓣ	**M22-XD-S-X8**	**M22-XDH-S-X8**	—
Black	See ① below	**M22-XD-S-X9**	**M22-XDH-S-X9**	—
Black	See ① below	**M22-XD-S-X10**	**M22-XDH-S-X10**	—
Black	See ① below	**M22-XD-S-X11**	**M22-XDH-S-X11**	—
Black	See ① below	**M22-XD-S-X12**	**M22-XDH-S-X12**	—
Black	See ① below	**M22-XD-S-X13**	**M22-XDH-S-X13**	—
Black	See ① below	**M22-XD-S-X14**	**M22-XDH-S-X14**	—
Black	See ① below	**M22-XD-S-X15**	**M22-XDH-S-X15**	—
Black	See ① below	**M22-XD-S-X16**	**M22-XDH-S-X16**	—
Black	See ① below	**M22-XD-S-X17**	**M22-XDH-S-X17**	—

Note

① Refer to the Symbols Library, (see **Pages V7-T1-129** to **V7-T1-136**), for symbol image.

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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
M22-A		Contact block mounting adapter	**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.

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M22-LED-W

Light Units

Terminal Type	Mounting Location	LED Color	Light Unit Voltage	Catalog Number
Screw	Front	White	12–30 Vac/Vdc	**M22-LED-W**
		Red		**M22-LED-R**
		Green		**M22-LED-G**
		Blue		**M22-LED-B**
		White	85–264 Vac	**M22-LED230-W**
		Red		**M22-LED230-R**
		Green		**M22-LED230-G**
		Blue		**M22-LED230-B**
		White	207–264 Vac	**M22-LED230H-W**
		Red		**M22-LED230H-R**
		Green		**M22-LED230H-G**
		Blue		**M22-LED230H-B**
	Base	White	12–30 Vac/Vdc	**M22-LEDC-W**
		Red		**M22-LEDC-R**
		Green		**M22-LEDC-G**
		Blue		**M22-LEDC-B**
		White	85–264 Vac	**M22-LEDC230-W**
		Red		**M22-LEDC230-R**
		Green		**M22-LEDC230-G**
		Blue		**M22-LEDC230-B**
		White	207–264 Vac	**M22-LEDC230H-W**
		Red		**M22-LEDC230H-R**
		Green		**M22-LEDC230H-G**
		Blue		**M22-LEDC230H-B**
Spring-cage	Front	White	12–30 Vac/Vdc	**M22-CLED-W**
		Red		**M22-CLED-R**
		Green		**M22-CLED-G**
		Blue		**M22-CLED-B**
		White	85–264 Vac	**M22-CLED230-W**
		Red		**M22-CLED230-R**
		Green		**M22-CLED230-G**
		Blue		**M22-CLED230-B**
	Base	White	12–30 Vac/Vdc	**M22-CLEDC-W**
		Red		**M22-CLEDC-R**
		Green		**M22-CLEDC-G**
		Blue		**M22-CLEDC-B**
		White	85–264 Vac	**M22-CLEDC230-W**
		Red		**M22-CLEDC230-R**
		Green		**M22-CLEDC230-G**
		Blue		**M22-CLEDC230-B**

M22-XLED60

LED Resistor and Test Elements

Terminal Type	Mounting Location	Element Type	Voltage	Catalog Number
Screw	Front	Resistor ①②	42–60 Vac/Vdc	**M22-XLED60**
			220 Vdc	**M22-XLED220**
		Test	12–240 Vac/Vdc	**M22-XLED-T**
			85–264 Vac	**M22-XLED230-T**

Notes

① Resistor units to be used with 12–30V light units.

② Refer to **IL04716002E** for use of resistor elements in series for higher DC voltage.

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Legend Plate Holders and Inserts, Pushbuttons and Double Pushbuttons ②

	Description	Inscription	Catalog Number
M22S-ST-X	Legend plate holder, without legend plate insert, for pushbuttons	—	**M22S-ST-X**
	Legend plate holder, without legend plate insert, for double pushbuttons	—	**M22S-STDD-X**
M22-XST-GB0	Legend plate insert	—	**M22-XST**
		Custom	**M22-XST-ETCH** ①
		STOP	**M22-XST-GB0**
		START	**M22-XST-GB1**
		OFF	**M22-XST-GB5**
		ON	**M22-XST-GB6**
		RUN	**M22-XST-GB7**
		FAULT	**M22-XST-GB8**
		OFF ON	**M22-XST-GB10**
		MAN. AUTO	**M22-XST-GB11**
		MAN. 0 AUTO	**M22-XST-GB12**
		HAND AUTO	**M22-XST-D11**
		HAND 0 AUTO	**M22-XST-D12**
		1	**M22-XST-X52**
		2	**M22-XST-X53**
		0 I	**M22-XST-X88**
		0 - I	**M22-XST-X89**
		I 0 II	**M22-XST-X93**

Notes

① 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 #_.

② Legend plates are IP66 and NEMA 4X/13.

Example

To order a legend plate for a pushbutton with non-standard markings (FORWARD):

1. Select legend plate holder—M22S-ST-X.
2. Select legend plate insert—M22-XST-ETCH.
3. Select FORWARD from the Symbols Library, **Pages V7-T1-129** to **V7-T1-136**, identified by GB15 suffix.
4. Indicate on the order form in the order notes—suffix GB15, line item # ___ .

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Legend Plates, Complete ②

	Description		Inscription	Catalog Number
M22S-ST-GB0	For use with pushbuttons and indicating lights	Legend plate holder with insert	STOP	**M22S-ST-GB0**
			START	**M22S-ST-GB1**
			OFF	**M22S-ST-GB5**
			ON	**M22S-ST-GB6**
			RUN	**M22S-ST-GB7**
			FAULT	**M22S-ST-GB8**
			1	**M22S-ST-X52**
			2	**M22S-ST-X53**
	Selector switches	—	OFF ON	**M22S-ST-GB10**
			MAN. AUTO	**M22S-ST-GB11**
			MAN. O AUTO	**M22S-ST-GB12**
			HAND AUTO	**M22S-ST-D11**
			HAND O AUTO	**M22S-ST-D12**
			O I	**M22S-ST-X88**
			O - I	**M22S-ST-X89**
			I O II	**M22S-ST-X93**
M22-XZK	Emergency-stop operators	Rectangular yellow legend plate	—	**M22-XZK**
			Custom	**M22-XZK-ETCH** ①
			EMERGENCY-STOP	**M22-XZK-GB99**
M22-XYK		Square yellow legend plate	—	**M22-XYK**
			—	**M22-XYK-ETCH** ①
			EMERGENCY-STOP four-language	**M22-XYK1**
			EMERGENCY-STOP (top and bottom)	**M22-XYK5**
		Round yellow legend plate, 90 mm	—	**M22-XAK**
			Custom	**M22-XAK-ETCH** ①
			EMERGENCY-STOP four-language	**M22-XAK1**
			EMERGENCY-STOP (top and bottom)	**M22-XAK5**
M22-XBK1		Round yellow legend plate, 60 mm	—	**M22-XBK**
			Custom	**M22-XBK-ETCH** ①
			EMERGENCY-STOP four-language	**M22-XBK1**
			EMERGENCY-STOP (top and bottom)	**M22-XBK5**
M22-XCK1	Four-way pushbutton, joystick and four-position selector switches	Silver square legend plate	—	**M22-XCK**
			Custom	**M22-XCK-ETCH** ①
			Four directional arrows	**M22-XCK1**
			0-1-0-2-0-3-0-4	**M22-XCK2**
			Two directional arrows	**M22-XCK3**

Notes

① 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 #_.

② Legend plates are IP66 and NEMA 4X/13.

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Surface Mounting Enclosures ①

M22-IY1-PG

M22-IY-PG

Description	Catalog Number
Yellow top, black base for emergency-stop operators	**M22-IY1-PG**
One-element enclosure	**M22-I1-PG**
Two-element enclosure	**M22-I2-PG**
Three-element enclosure	**M22-I3-PG**
Four-element enclosure	**M22-I4-PG**
Six-element enclosure	**M22-I6-PG**
M20 connecting screw	**M22-XI**
M20 cord grip	**V-M20**

Flush Mounting Plates, Aluminum

M22-EY1

Finish	Rating	Catalog Number
One Hole		
Yellow paint for emergency-stop operators	—	**M22-EY1**
Gray anodized	IP65	**M22-E1**
Two Holes		
Gray anodized	IP65	**M22-E2**
Three Holes		
Gray anodized	IP65	**M22-E3**
Four Holes		
Gray anodized	IP65	**M22-E4**
Five Holes		
Gray anodized	IP65	**M22-E5**
Six Holes		
Anodized	IP40	**M22-E6**

Shrouds, Plastic

M22-H1

Description	Rating	Catalog Number
One-element	IP55	**M22-H1**
Two-element	IP55	**M22-H2**
Three-element	IP55	**M22-H3**
Four-element	IP40	**M22-H4**
Five-element	IP40	**M22-H5**
Six-element	IP40	**M22-H6**
Mounting plate	—	**M22-XE5**
Plaster keys for flush mounting	—	**M22-UPE**

Selector Switch Accessories

Description	Catalog Number
M22-XW Plunger bridge ②	**M22-XW**
M22-XWS Key cover	**M22-XWS**
M22-XC-R Key withdraw adapter ③	**M22-XC-R**
M22-XC-Y Coding adapter	**M22-XC-Y**
M22-XGWK Guard ring	**M22-XGWK**

Notes

① Requires use of base mounted contact blocks.

② Plunger needed to actuate center-mounted contact blocks. Used for non-illuminated three-position selector switches only.

③ Enables a keyed selector switch to be set to user-selected key withdraw position.

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Emergency Stop Operator Accessories

	Description	Voltage	Catalog Number
M22-XGPV	Yellow guard ring	—	**M22-XGPV**
M22G-XGPV	Gray guard ring	—	**M22G-XGPV**
M22-MGTA	Rectangular guard	—	**M22-MGTA**
M22-PL-PV	Sealing shroud	—	**M22-PL-PV**
M22-XPV60-Y-120	Illuminated ring	24 Vac/Vdc	**M22-XPV60-Y-24**
		120 Vac	**M22-XPV60-Y-120**
		230 Vac	**M22-XPV60-Y-230**

Blanking Plugs

	Color	Catalog Number
M22-B	Gray	**M22-B**
	Black	**M22S-B**

Mounting Accessories

	Description	Catalog Number
M22-TC and M22-TA	Telescopic clip with top-hat rail	**M22-TC**
	Telescopic clip	**M22-TA**
	Telescopic clip extension	**M22-TCV**
M22-IVS	DIN rail mounting adapter	**M22-IVS**
M22-GR	Mounting ring	**M22-GR**
M22-MS	Mounting ring tool	**M22-MS**
M22S-R30	Adapter ring set for 30 mm holes	**M22S-R30**

Protective Diaphragm

	For Use with …	Catalog Number
M22-T-D and M22-T-DD	Flush pushbuttons and indicating lights	**M22-T-D**
	Double pushbuttons	**M22-T-DD**

Dust Covers

	Description	Catalog Number
M22-ADC4	Contact block dust cover	**M22-XKDP**
	Operator dust cover, max three contact blocks	**M22-ADC**
	Operator dust cover, max four contact blocks	**M22-ADC4**

Kits

Description	Catalog Number
Includes one each: M22-XW, M22-XC-R, M22-XC-Y, M22S-B, M22-A, M22-XD-SWRGYB	**M22-KT1**

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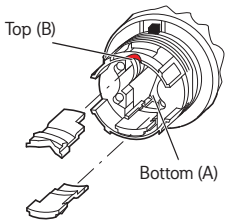
Coding Adapter Guide

Selector Switches



Two-Position Selector Switch

Top (B)	Bottom (A)	Catalog Number	Function
		M22(S)-W(L)(K)	Momentary
		M22(S)-WR(L)(K)	Maintained

Three-Position Selector Switch

Top (B)	Bottom (A)	Catalog Number	Function Left	Right
		M22(S)-W(L)(K)3	Momentary	Momentary
		M22(S)-WR(L)(K)3	Maintained	Maintained
		M22(S)-WR(L)(K)3-1	Maintained	Momentary
		M22(S)-WR(L)(K)3-2	Momentary	Maintained

Two-Position Key-Operated Selector Switch

Top (B)	Bottom (A)	Catalog Number	Center Key Withdraw	Right Function	Key Withdraw
		M22(S)-WS	Yes	Momentary	No
		M22(S)-WRS	Yes	Maintained	Yes
		M22(S)-WRS-A1	Yes	Maintained	No

Three-Position Key-Operated Selector Switch

Top (B)	Bottom (A)	Catalog Number	Left Function	Key Withdraw	Center Key Withdraw	Right Function	Key Withdraw
		M22(S)-WS3	Momentary	No	Yes	Momentary	No
		M22(S)-WRS3	Maintained	Yes	Yes	Maintained	Yes
		M22(S)-WRS3-A1	Maintained	No	Yes	Maintained	No
		M22(S)-WRS3-A2	Maintained	Yes	Yes	Maintained	No
		M22(S)-WRS3-A3	Maintained	No	Yes	Maintained	Yes
		M22(S)-WRS3-A4	Maintained	Yes	Yes	Momentary	No
		M22(S)-WRS3-A5	Maintained	No	Yes	Momentary	No
		M22(S)-WRS3-A6	Momentary	No	Yes	Maintained	Yes
		M22(S)-WRS3-A7	Momentary	No	Yes	Maintained	No

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Technical Data and Specifications

Pushbuttons, Indicating Lights, Selector Switches and Emergency-Stop Operators

Description			Momentary Pushbuttons	Maintained Pushbuttons	Indicating Lights, Buzzers and Potentiometers	Emergency-Stop Operators	Selector Switches	Key-Operated Operators	Double Pushbuttons
General									
Standards			IEC/EN 60947 VDE 0660 UL #E29184	IEC/EN 60947 VDE 0660 UL #E29184	IEC/EN 60947 VDE 0660 UL #E29184	IEC/EN 60947 VDE 0660 UL #340491	IEC/EN 60947 VDE 0660 UL #E29184	IEC/EN 60947 VDE 0660 UL #E29184	IEC/EN 60947 VDE 0660 UL #E29184
Lifespan, mechanical	Operations	x 10^6	>5	>1	—	>0.1	>0.1	>0.1	>0.2
Operating frequency	Operations/h		≥3600	≥1800	—	≥600	≥2000	≥100	≥3600
Actuating force		n	≥5	≥5	—	≥50	–	—	≥5
Operating torque (screw terminals)		Nm	—	—	—	—	≥0.3	≥0.5	—
Protection Type									
IP			IP67, IP69K	IP67, IP69K	Indicating lights: IP67, 69K Buzzers: IP40 Potentiometers: IP66	IP67, IP69K	IP66	IP66	IP66
UL type			4X, 13	4X, 13	Indicating lights: 4X/13 Buzzers: 12 Potentiometers: 4X/13	4X, 13	4X, 13	4X, 13	4X, 13
Climatic proofing			Damp heat, constant, according to IEC 60068-2-78 Damp heat, cyclical to IEC 60068-2-30						
Ambient temperature, operating		°F (°C)	–13 to 158 (–25 to 70)	–13 to 158 (–25 to 70)	–13 to 158 (–25 to 70)	–13 to 158 (–25 to 70)	–13 to 158 (–25 to 70)	–13 to 158 (–25 to 70)	–13 to 158 (–25 to 70)
Mounting position			As required	As required	As required	As required	As required	As required	As required
Mechanical shock resistance to IEC 60068-2-27 shock duration 11 ms, half-sinusoidal		g	>30	>30	>30	>50	>30	>30	>30
Terminal Capacities									
Solid		AWG	—	—	20-16	—	—	—	—
		mm^2		—	0.5–1.5	—		—	
Stranded		AWG	—	—	20-16	—	—	—	—
		mm^2		—	0.5–1.5	—		—	
Contacts									
Rated impulse withstand voltage	U_{imp}	Vac	—	—	4000	—	—	—	—
Rated insulation voltage	U_i	V	—	—	2500	—	—	—	—
Overvoltage category/ pollution degree			—	—	III/3	—	—	—	—

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Contact Blocks and Light Units

Description			Contact Blocks	LED Light Units
General				
Standards			IEC/EN 60947 VDE 0660 UL #E29184	IEC/EN 60947 VDE 0660 UL #E29184
Lifespan, mechanical	Operations	x 10^6	>5	—
Operating frequency	Operations/h		≥3600	—
Actuating force		n	≥5	—
Operating torque (screw terminals)		Nm	≤0.8	—
Protection Type				
IP			IP20	IP20
UL type			—	—
Climatic proofing			Damp heat, constant, according to IEC 60068-2-78 Damp heat, cyclical to IEC 60068-2-30	
Ambient temperature, operating		°F (°C)	–13 to 158 (–25 to 70)	–13 to 158 (–25 to 70)
Mounting position			As required	As required
Mechanical shock resistance to IEC 60068-2-27 shock duration 11 ms, half-sinusoidal		g	>30	>30
Terminal Capacities				
Solid		AWG	18–14	18–14
		mm^2	0.75–2.5	0.75–2.5
Stranded		AWG	20–14	20–14
		mm^2	0.5–2.5	0.5–2.5
Contacts				
Rated impulse withstand voltage	U_{imp}	Vac	6000	6000
Rated insulation voltage	U_i	V	500	500
Overvoltage category/ pollution degree			III/3	III/3
NEMA contact ratings			A600, Q300	—
Current draw			—	5–15 mA
Control Circuit Reliability				
at 24 Vdc/5 mA	H_F	Fault probability	$<10^{-7}$, <1 fault in 10^7 operations	—
at 5 Vdc/1 mA	H_F	Fault probability	$<5 \times 10^{-6}$, <1 fault in 5×10^6 operations	—
Max. Short-Circuit Protective Device				
Fuse	gG/gL	A	10	—
Switching Capacity				
Rated Operational Current				
AC-15				
115V	I_e	A	6	—
230V	I_e	A	6	—
400V	I_e	A	4	—
500V	I_e	A	2	—
DC-13				
24V	I_e	A	3	—
42V	I_e	A	1.7	—
60V	I_e	A	1.2	—
110V	I_e	A	0.6	—
220V	I_e	A	0.3	—
Lifespan, Electrical				
AC-15				
230V/0.5A	Operations	x 10^6	1.6	—
230V/1.0A	Operations	x 10^6	1	—
230V/3.0A	Operations	x 10^6	0.7	—
DV-13				
12V/2.8A	Operations	x 10^6	1.2	—

Contact Element Note: >200 Vac/60 Hz: –25/55°C

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Palm Switches

Description			Momentary	Maintained	FAK-R-V-KC11-I
General					
Standards			IEC/EN 60947 VDE 0660	IEC/EN 60947 VDE 0660	IEC/EN 60947 VDE 0660
Lifespan, mechanical	Operations	x 10^6	>1	>0.1	>0.1
Operating frequency	Operations/h		≥3600	≥600	≥600
Actuating force		n	20–40	40–60	15–25
Operating torque		Nm	—	—	—
Degree of protection, IEC/EN 60529		IP	IP67, IP69K	IP67, IP69K	IP65
		UL Type	4X, 13	4X, 13	4X, 13
Climatic proofing			Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30		
Ambient temperature, operating		°F (°C)	–73 to 104 (–25 to 40)	–73 to 104 (–25 to 40)	–73 to 104 (–25 to 40)
Mounting position			As required		
Mechanical shock resistance to IEC 60068-2-27 shock duration 11 ms, half-sinusoidal		g	>15	>15	>15

ASi Adapter Modules

Description		M22-ASI	M22-ASI-C
General			
Standards		IEC/EN 60947, DIN EN 50295	IEC/EN 60947, DIN EN 50295
Radio interference suppression		EN 55011, EN 55022	EN 55011, EN 55022
Limit value class		—	—
Protection type		IP20	IP00
Climatic proofing		Damp heat, constant, to IEC 60068-2-78, cyclical, to IEC 60068-2-30	
Ambient temperature, operating	°F (°C)	–13 to 131 (–25 to 55)	–13 to 131 (–25 to 55)
Shock resistance shock duration 11 ms	g	>30	>30
Vibration to IEC 60068-2-27 (amplitude 1 mm)	Hz	—	—
Dimensions	mm	—	—
Weight	kg	—	—
Mounting		Front mounting	Front mounting
Mounting position		As required	As required
Power Supply			
Rated voltage to AS-interface specification	Vdc	26.5–31.6	26.5–31.6
Connection technique		Yellow plug-in terminal as insulation piercing terminal	Two cables onboard
Power supply		Completely from the AS-interface cable	
Addressing		Via connection to AS-interface cable	
Total power consumption of the AS-interface	mA	≥40	≥40
AS-interface		—	—
Rated operational current at full load	mA	—	—
Rated operational current when idle (no I, O set)	mA	—	—
Status LEDs		POWER AS-interface cable: green LED on the rear side of the element ERROR AS-interface, AS-interface master failure: red LED on the rear side of the element	POWER AS-interface cable: green LED on the board ERROR AS-interface, AS-interface master failure: red LED on the board

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ASi-S Adapter Modules

Description		M22-ASI-S	M22-ASI-CS
Inputs			
Inputs, protected against short-circuit	Number	Two (normally 22V/5 mA)	Two (normally 22V/5 mA)
Voltage range	Vdc	—	—
Rated current per input	mA	—	—
High signal level	V	—	—
Low signal	mA	—	—
Length of connecting cables	cm	—	—
Outputs			
Outputs, protected against short-circuit	Number	One (normally 19V/8 mA)	One (normally 19V/8 mA)
Voltage range	Vdc	—	—
Max. Current Carrying Capacity			
All outputs		—	—
Σ three external outputs		—	—
Length of connecting cables	cm	—	—
Profile		S-3.A.E	S-3.A.E
Specification		2.1	2.1
Addresses	Number	62	62
Emergency-Stop Circuits			
Connection of the AS-interface line		Yellow plug terminal with insulation piercing	Two cables on the circuit board
Power supply		Complete from AS-interface, cable 26.5–31.6 Vdc	Complete from AS-interface, cable 26.5–31.6 Vdc
Fixing		Front mounted	Base mounted
Addressing		Via AS-interface cable	Via AS-interface cable
Max. total current	A	45 mA	45 mA
Ambient temperature, operating	°F (°C)	–13 to 131 (–25 to 55)	–13 to 131 (–25 to 55)
Shock resistance		30g/11 ms as per IEC 60068-2-27	30g/11 ms as per IEC 60068-2-27
Protection type		IP20	IP00
Climatic proofing		Damp heat, constant, to IEC 60068-2-78, cyclical, to IEC 60068-2-30	Damp heat, constant, to IEC 60068-2-78, cyclical, to IEC 60068-2-30
Mounting position		As required	As required
Standards		EN 50178 EN 50 295	EN 50178 EN 50 295
Inputs		Two-channel input (22V/5 mA) (moduled by code sequence) (two break contact sets M22-K01)	Two-channel input (22V/5 mA) (moduled by code sequence) (two break contact sets M22-K01)
Outputs		One output, typically 19V/8 mA, short-circuit proof	One output, typically 19V/8 mA, short-circuit proof
Status Displays			
Power, AS-interface cable		Green LED on the back	Green LED on the back
AS-interface error, AS-interface master failure		Red LED on the back	Red LED on the back
Profile		S-7.B.E	S-7.B.E

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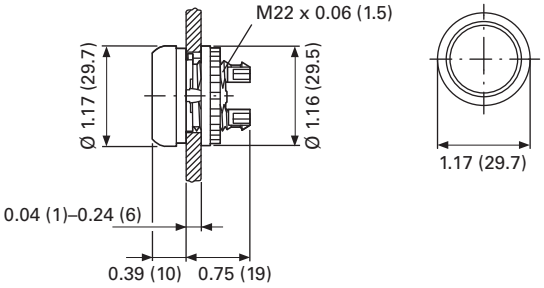
Dimensions

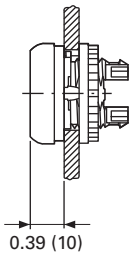
Approximate Dimensions in Inches (mm)

Operators and Indicating Lights

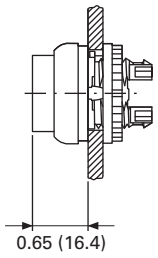


Pushbuttons

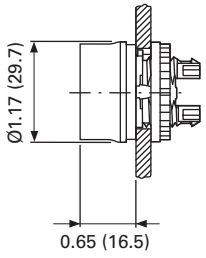
M22…-D-_



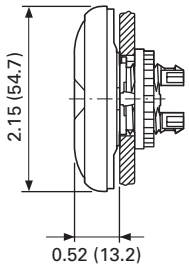
M22…-DH-_



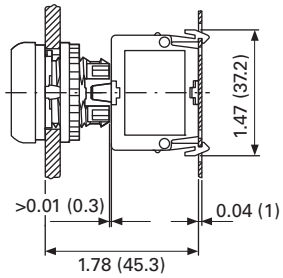
M22-DG(L)-_



M22…-DD-_

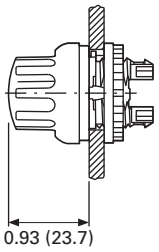


M22-D, Base Mounted

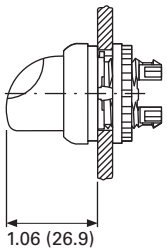


Selector Switches Operators

M22…-W-_

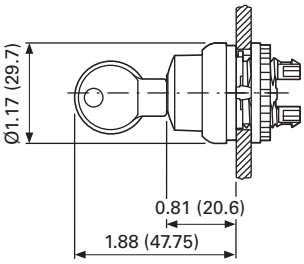


M22…-WL-_



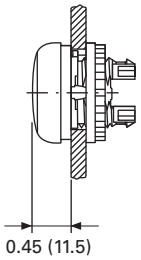
Key-Operated Selector Switches

M22…-W(R)S-_



Indicating Light

M22-L_



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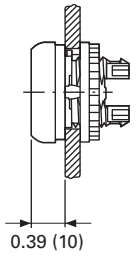
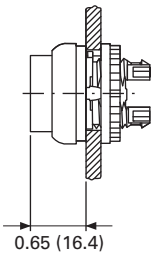
Approximate Dimensions in Inches (mm)

Illuminated Pushbuttons

M22…-DL-_

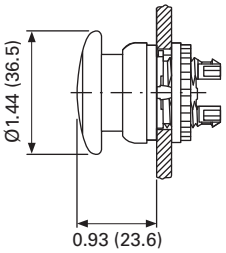


M22…-DLH_



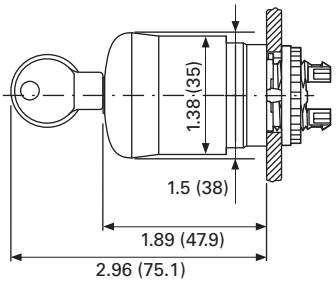
Mushroom Head Pushbutton

M22…-DP-_



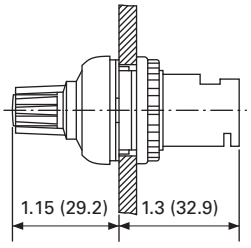
Emergency-Stop Operators

M22-PV_
M22S-PV_
M22-PVL_
M22-PVS_



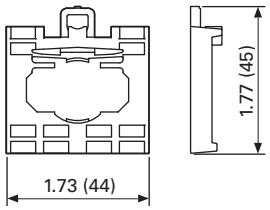
Potentiometer

M22(S)-R_

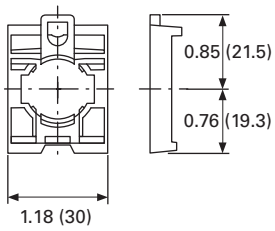


Contact Block Mounting Adapter

M22-A_

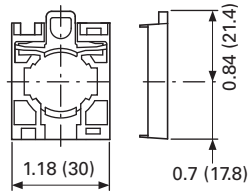


M22S-A…

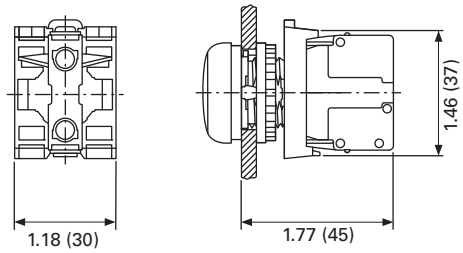


Front Mounted Centering Adapter

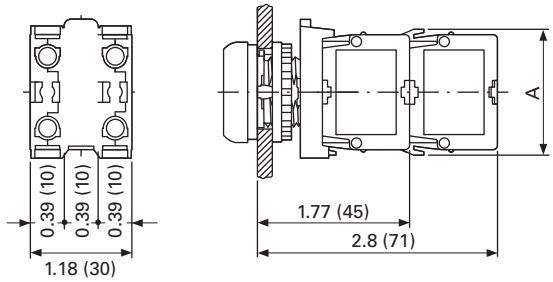
M22-ZA



Front Mounted Indicating Light



Pushbutton, Complete Devices



	1 x M22-K_	2 x M22-K_	1 x M22-CK_	2 x M22-CK_
A	1.46 (37.2)	1.46 (37.2)	1.54 (39.0)	1.54 (39.0)

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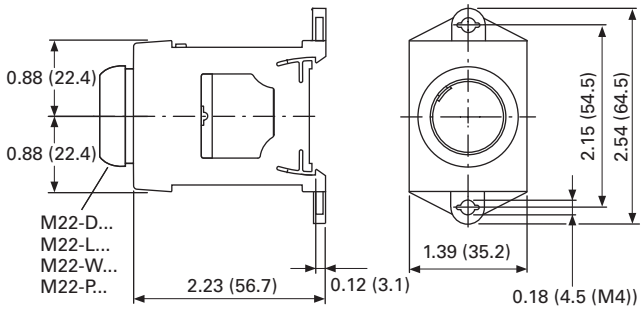
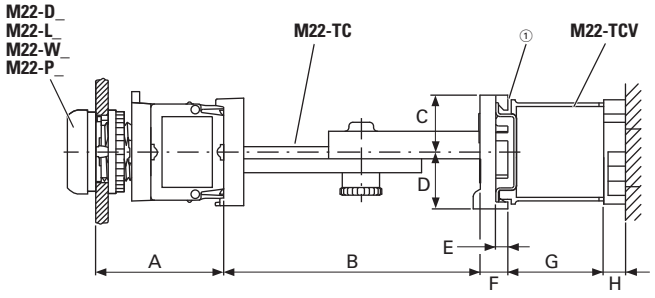
Approximate Dimensions in Inches (mm)

DIN-Rail Mounting Adapter



Pushbuttons and Indicating Lights with M22-TC Telescopic Clip and M22-TVC Extension

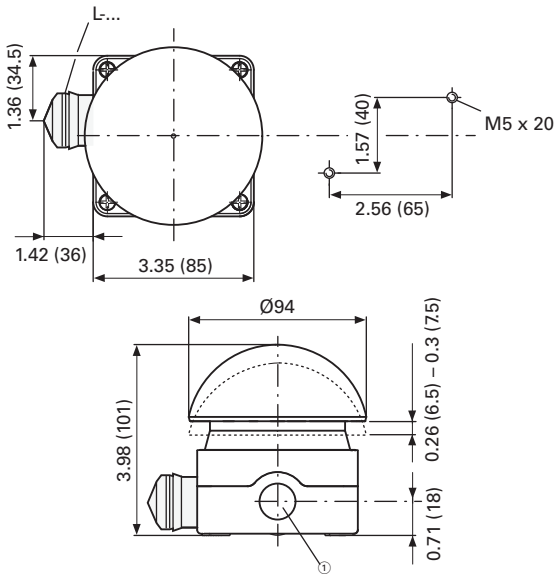


A	B	C	D	E	F	G	H
1.77 (45)	2.36–3.94 (60–100)	0.79 (20)	0.79 (20)	0.18 (4.5)	0.39 (10)	154 (39)	0.39 (10)

① Top-hat rail to IEC/EN 60715.

Palm Switches

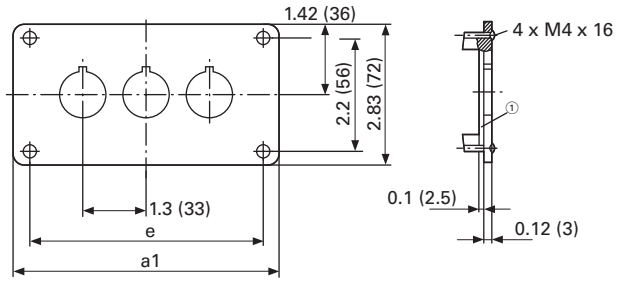
FAK_



① 3 x M20 lateral, 1 x M16 in bottom.

Front Mounted Mounting Plate

M22-E_

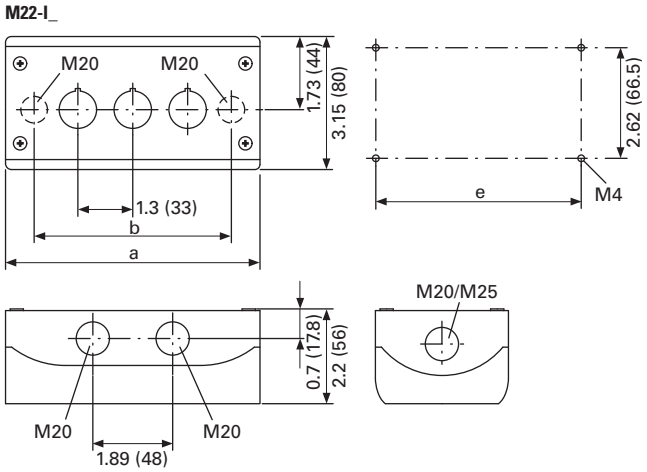


Catalog Number	a1	e
M22-E(Y) ①	2.83 (72)	2.21 (56)
M22-E2	4.13 (105)	3.50 (89)
M22-E3	5.43 (138)	4.80 (122)

Catalog Number	a1	e
M22-E4	6.73 (171)	6.10 (155)
M22-E5	8.03 (204)	7.40 (188)
M22-E6	9.33 (237)	8.70 (221)

Base Mounted Surface Mounting Enclosure

M22-I_



Catalog Number	Mounting Locations	a	b	e	Cable Entries		
M22-I(Y)1	1	2.83 (72.0)	1.68 (42.6)	2.30 (58.5)	2 x M16	3 x M20	2 x M25
M22-I2	2	4.72 (120.0)	3.37 (85.6)	4.19 (106.5)	2 x M20	3 x M20	2 x M25
M22-I3	3	6.02 (153.0)	4.67 (118.6)	5.49 (139.5)	2 x M20	2 x M25	4 x M20
M22-I4	4	7.32 (186.0)	5.97 (151.6)	6.79 (172.5)	2 x M20	2 x M25	4 x M20
M22-I6	6	9.92 (252.0)	8.57 (217.6)	9.39 (238.5)	2 x M20	2 x M25	4 x M20

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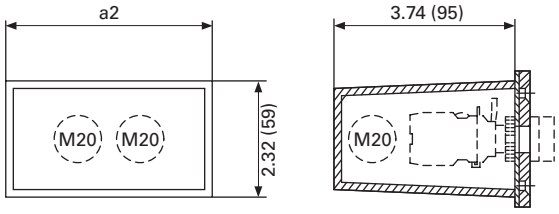
Approximate Dimensions in Inches (mm)

Covers

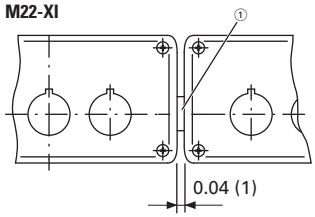
M22-H_



Catalog Number	a2	Cable Entry	Style
M22-H1	1.65 (42)	3 x M20	One-piece
M22-H2	2.95 (75)	4 x M20	
M22-H3	4.25 (108)	4 x M20	
M22-H4	5.55 (141)	4 x M20	Split
M22-H5	6.85 (174)	5 x M20	
M22-HE6	8.15 (207)	6 x M20	

Connecting Screw

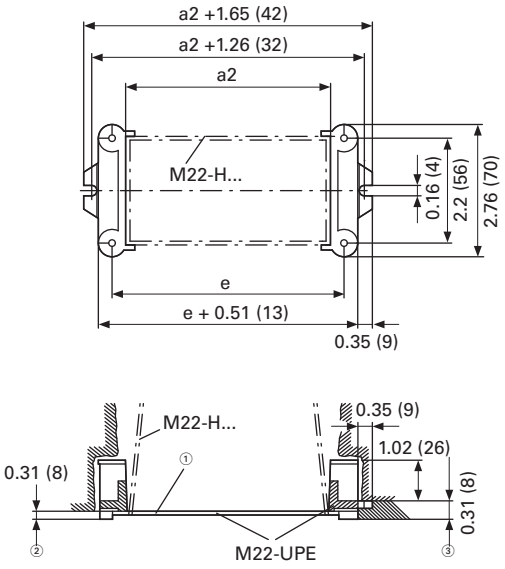
M22-XI



① Gasket.

Shroud with Plaster Keys

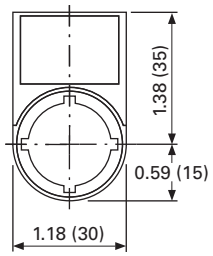
M22-UPE



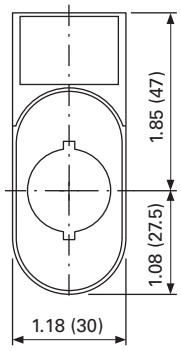
② Box for closing off when plastering.
③ Plaster thickness less than 8 mm.
④ Plaster thickness more than 8 mm.

Legend Plates

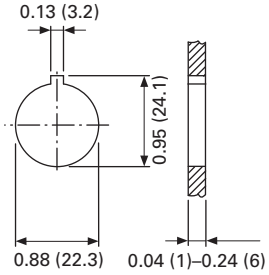
M22S-ST-_



M22S-STDD-X



Mounting Hole with Lug Slot



USB Socket

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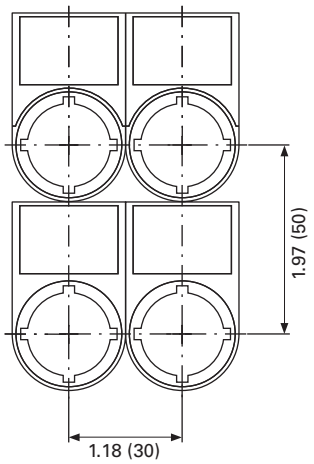
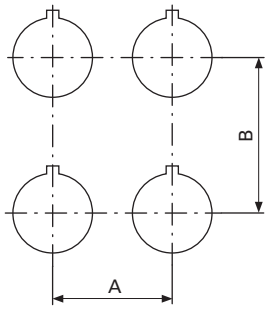
Approximate Dimensions in Inches (mm)

Grid Dimension to IEC/EN 60947

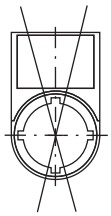


Grid Dimension for Various Combinations



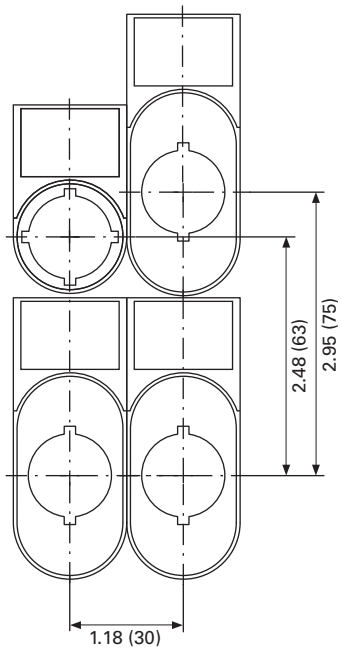
Pushbutton Diaphragm

Pushbutton diaphragm cannot be combined with label mount.

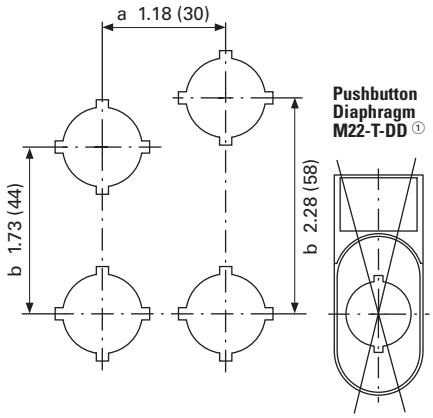


Catalog Number	A ≥	B ≥
M22(S)-_(IEC/EN 60947)	1.18 (30.0)	1.97 (50.0)
RMQ-Titan min.	1.18 (30.0)	1.58 (40.0)
M22-D_ + M22-T-D	1.30 (33.0)	1.58 (40.0)
M22-D(R)P_	1.50 (38.0)	1.58 (40.0)
M22-PV_	1.50 (38.0)	1.58 (40.0)
M22-PV(L) + M22-PL-PV	1.89 (48.0)	2.20 (56.0)
M22-PV(L)(S_) + M22-D_	1.30 (33.0)	1.58 (40.0)
M22-DDL_	1.18 (30.0)	2.17 (55.0)
M22-DDL_ + M22-T-DD	1.30 (33.0)	2.28 (58.0)
M22-ST_	1.18 (30.0)	1.97 (50.0)
M22-STDD_	1.18 (30.0)	2.95 (75.0)
M22-CK_	1.18 (30.0)	1.77 (45.0)
M22-CLED_	1.18 (30.0)	1.77 (45.0)
M22-XAK_	3.54 (90.0)	3.54 (90.0)
M22-XZK_	1.30 (33.0)	2.04 (52.0)
M22-XBK_	2.36 (60.0)	2.36 (60.0)
M22-XYK_	1.97 (50.0)	1.97 (50.0)
M22-D4	2.17 (55.0)	2.17 (55.0)
M22-WR…4	1.97 (50.0)	1.97 (50.0)
M22-W…J4	1.97 (50.0)	1.97 (50.0)

Grid Dimension for M22-DD_



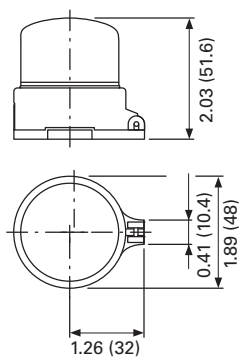
Grid Dimension for M22-DDL_



① Pushbutton diaphragm cannot be combined with label mount.

Emergency Stop Sealing Cover

M22-PL-PV



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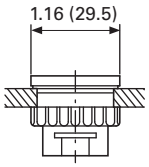
Approximate Dimensions in Inches (mm)

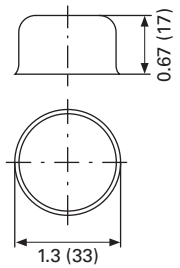
Blanking Plugs

M22…B-_

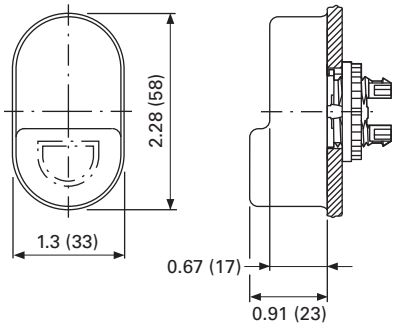


Pushbutton Diaphragm

M22-T-D

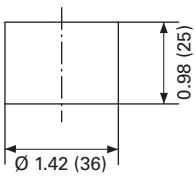


M22-T-D

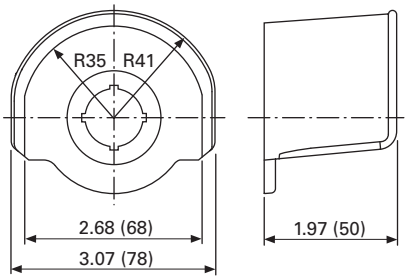


Guard Ring

M22-XGWK

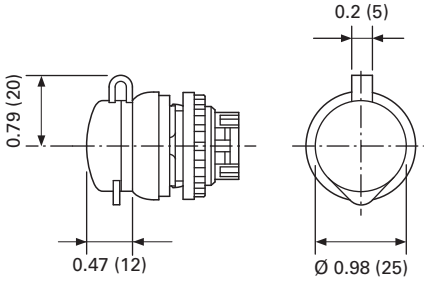


M22-XGPV



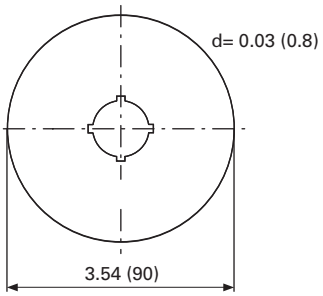
Key Cover

M22-XWS

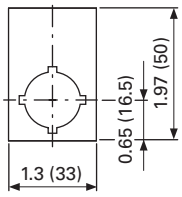


Emergency Stop Legend Plate

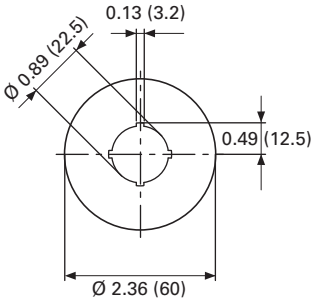
M22-XAK_



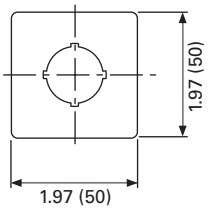
M22-X(Y)ZK_



M22-XBK-_

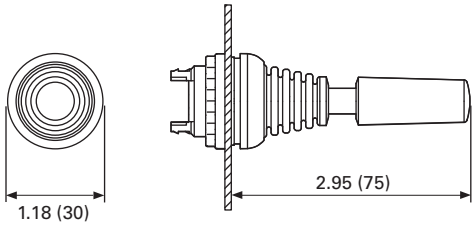


M22-XYK-_



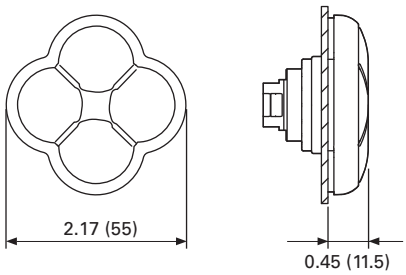
Joystick

M22…W…J_



Four-Way Pushbutton

M22…-D…4-_



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Symbols Library

Instructions for Ordering Laser Inscriptions

1. Identify part number to be inscribed.
2. Pick symbol from library and identify suffix code associated with the symbol.
3. Order part number already listed in the catalog with -ETCH suffix.
4. When placing an order by fax or Vistaline on the Web, reference order item number and indicate appropriate suffix code.

Example

To order a green flush button plate with the inscription AUTO HAND:

Order Catalog Number: M22-XD-G-ETCH (see **Page V7-T1-55**).

AUTO HAND inscription is found on **Page V7-T1-133** in the Symbols Library, suffix code is X91.

In the order notes, reference item number and suffix X91.

Letter height 3 mm: max. three lines, max. 12 characters per line.

Letter height 5 mm: max. two lines, max. eight characters per line.

Note: For symbols or text not found in the Symbols Library, please contact the Eaton Technical Resource Center at 1-877-ETN CARE (386-2273) or TRC@eaton.com.

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Letter Height Specifications: ≤ five characters; letter height = 0.197 in (5 mm). > five characters; letter height = 0.118 in (3 mm).

Text—English

Inscription	Catalog Number Suffix
STOP	GB0
START	GB1
CLOSE	GB2
UP	GB3
DOWN	GB4
OFF	GB5
ON	GB6
RUN	GB7
FAULT	GB8
TEST	GB9
OFF ON	GB10
MAN. AUTO	GB11
MAN. 0 AUTO	GB12
RESET	GB14
FORWARD	GB15
REVERSE	GB16
RAISE	GB17

Inscription	Catalog Number Suffix
LOWER	GB18
LEFT	GB19
RIGHT	GB20
BRAKE	GB21
HIGH	GB22
LOW	GB23
FAST	GB24
SLOW	GB25
FASTER	GB26
SLOWER	GB27
OPEN	GB32
PROG	GB62
CALL	GB63
OCCUPIED	GB64
BYPASS 0 1	GB65
BYPASS UP	GB66
EMERGENCY-STOP	GB99

Text—German

Inscription	Catalog Number Suffix
Halt	D0
Start	D1
Zu	D2
Auf	D3
Ab	D4
Aus	D5
En	D6
Betrieb	D7
Störung	D8
Prüfung	D9
Aus Ein	D10
HAND AUTO	D11
HAND 0 AUTO	D12
Antrieb	D13
Entsperren	D14
Vorwärts	D15
Rückwärts	D16
Heben	D17
Senken	D18
Links	D19
Rechts	D20
Bremsen	D21
Hoch	D22
Niedrig	D23
Schnell	D24

Inscription	Catalog Number Suffix
Langsam	D25
HAND	D28
AUTO	D29
Einrichten	D30
Tippen	D31
Öffnen	D32
Steuerspannung	D33
Start Automatik	D34
Lampentest	D35
Phasenkontrolle	D36
Alarm	D37
Alarm - Reset	D38
Sammelstörung	D39
Quittieren	D40
Quittierung	D41
Steuerung Ein	D42
Steuerung Aus	D43
Störung quittieren	D44
FÜHLER int. ext.	D72
HEIZUNG 1 2	D73
AUS- BLASEN	D74
SOLLWERT int. ext.	D75
Not-Aus	D99
Not - Aus quittieren	D100

Text Size: 3 mm—Max. eight characters in first line; 10 characters in second line; eight characters in third line.

Text Size: 5 mm—Max. five characters per line.

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Letter Height Specifications: ≤ five characters; letter height = 0.197 in (5 mm). > five characters; letter height = 0.118 in (3 mm).

Text—French

Inscription	Catalog Number Suffix
ARRÊT	F0
MARCHE	F1
FERMÉ	F2
MONTÉE	F3
DESCENTE	F4
ARRÊT	F5
MARCHE	F6
EN SERVICE	F7
PANNE	F8
ESSAI	F9
ARRÉT MARCHE	F10
MAN. AUTO	F11
MAN. 0 AUTO	F12
REARM.	F14
AVANT	F15
ARRIÈRE	F16
MONTER	F17
DESCENDRE	F18
GAUCHE	F19
DROITE	F20
DEFAULT	F67
SOUS TENSION	F68
ARRÊT D'URGENCE	F99

Text—Swedish

Inscription	Catalog Number Suffix
STOPP	S0
START	S1
STÄNG	S2
UPP	S3
NED	S4
FRÅN	S5
TILL	S6
KÖR	S7
FEL	S8
PROV	S9
FRAN TILL	S10
MAN. AUTO	S11
MAN. 0 AUTO	S12
ATERSTÄLLNING	S14
FRAM	S15
BACK	S16
ÖKA	S17
MINSKA	S18
VÄNSTER	S19
HÖGER	S20
BROMS	S21
HÖG	S22
LÅG	S23
ÖPPNA	S32
IN	S45
UT	S46
NÖDSTOPP	S99

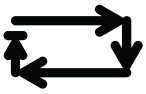
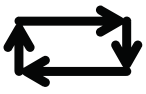
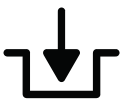
Symbols

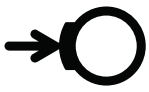
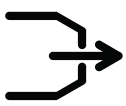
Inscription	Catalog Number Suffix
○	X0
I	X1
II	X2
III	X3
+	X4
—	X5
R	X6
↑	X7
↖	X8
☞	X9
⌀	X10
⊕	X11
⇧	X12

Inscription	Catalog Number Suffix
⇤⇥	X13
⇥⇤	X14
↑ ↙ ↘	X15
🚰	X16
⊳	X17
X	X18
L	X19
T	X20
IV	X21
V	X22
VI	X23
Y	X24
△	X25

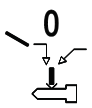
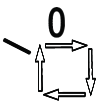
Text Size: 3 mm—Max. eight characters in first line; 10 characters in second line; eight characters in third line.

Text Size: 5 mm—Max. five characters per line.

Inscription	Catalog Number Suffix
	X26
	X27
	X28
	X29
	X30
	X31
	X32
	X33
	X34
	X35
	X36
	X37
	X38
	X39

Inscription	Catalog Number Suffix
	X40
	X41
	X42
	X43
	X44
	X45
	X46
	X47
	X48
	X49
	X50
0	X51
1	X52
2	X53

Inscription	Catalog Number Suffix
3	X54
4	X55
5	X56
6	X57
7	X58
8	X59
9	X60
	X61
	X62
	X63
	X64
	X65
	X66
	X67

Inscription	Catalog Number Suffix
	X68
	X69
	X70
	X71
	X72
	X73
	X74
	X75
	X76
	X77
	X78
	X79
	X80
	X81

Text Size: 3 mm—Max. eight characters in first line; 10 characters in second line; eight characters in third line.

Text Size: 5 mm—Max. five characters per line.

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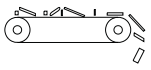
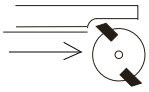
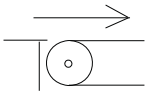
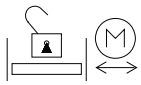
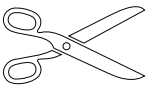
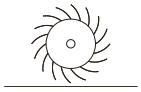
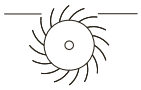
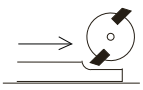
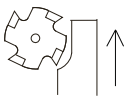
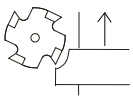
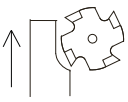
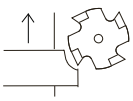
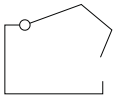
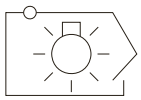
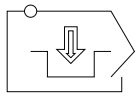
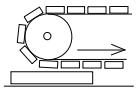
Inscription	Catalog Number Suffix
	X82
	X83
0 I	X88
0 I	X89
I 0	X90
AUTO HAND	X91
II I	X92
I 0 II	X93
Auto 0 Man.	X94
I II	X95
	X100
	X101
	X102
	X103
	X104
	X105
	X106
	X107
	X108
	X109
	X110
	X111
	X112
	X113
	X114
	X115
	X116
	X117
	X118
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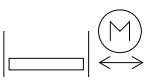
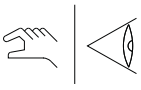
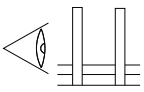
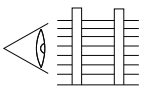
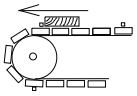
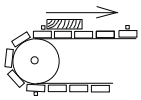
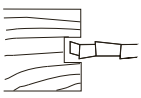
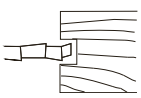
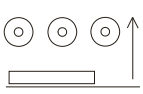
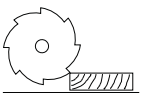
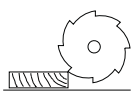
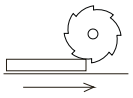
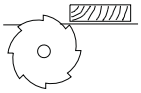
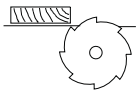
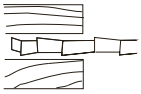
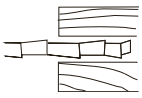
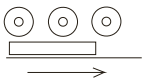
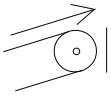
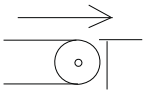
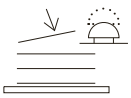
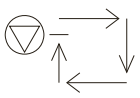
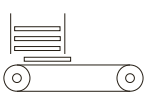
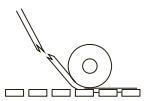
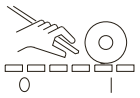
	X120
	X121
	X122
	X123
	X124
	X125
	X126
	X127
	X128
	X129
	X130
	X131
	X132
	X133
	X134
	X135
	X136
	X137
	X138
	X139
	X140
	X141
	X142
	X143
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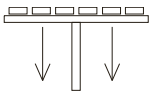	X145

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Text Size: 5 mm—Max. five characters per line.

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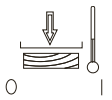	X146
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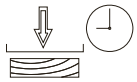
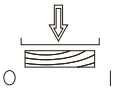
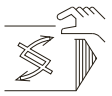
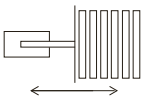
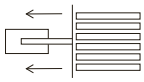
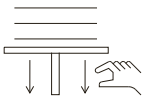
	X148
	X149
	X150
	X151
	X152
	X153
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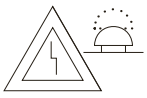
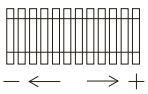
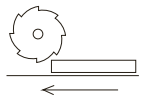
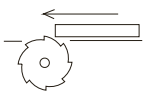
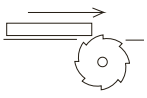
	X155
	X156
	X157
	X158
	X159

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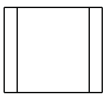	X172
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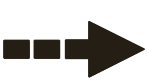	X183
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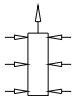
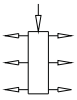
	X186
	X187

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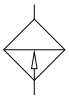
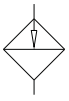
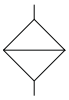
	X191
	X192
	X193
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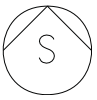	X199
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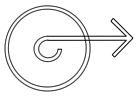	X202
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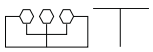	X214
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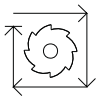
Inscription	Catalog Number Suffix
	X216
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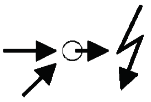	X218
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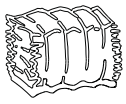	X227
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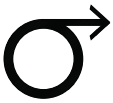	X231
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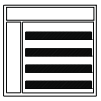	X236
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Inscription	Catalog Number Suffix
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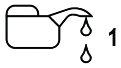
0  1	X245
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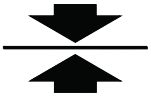	X248
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ROTATE AXIS	X250
SET IN	X251
CLAMP / UNCLAMP CLAMP.DEVICE	X252
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Inscription	Catalog Number Suffix
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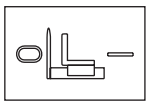	X261
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	X263
	X264

Inscription	Catalog Number Suffix
	X265
	X266
	X267
	X268
	X269
	X270
CHEM I	X271

Inscription	Catalog Number Suffix
CHEM II	X272
CHEM III	X273
	X274
	X275
CONTI CUT	X276
	X277
TOOL UNLOCKING	X278

Inscription	Catalog Number Suffix
T1 - Tn CHANGE TOOL ARM	X279
	X280
OUT OF SERVICE	X281
	X282
	X283
	X284
	X285

Text Size: 3 mm—Max. eight characters in first line; 10 characters in second line; eight characters in third line.

Text Size: 5 mm—Max. five characters per line.