

# Industrial-grade control and signaling

With a combination of advanced design and enhanced functionality, the M22 line of 22 mm IEC pushbuttons is perfect for a wide variety of global machine control applications. M22 is ideal for OEMs, end users and system integrators who value front panel aesthetics, maximum flexibility and high-quality construction.





#### **Features**

- Heavy-duty, 22 mm pilot device line
- Aesthetic design increases perceived machine value
- Broad combination of operator styles
- Common back-of-panel components
- Anti-rotation tab and central nut mount for easy installation
- Conversion between momentary and maintained functionality is easily done in the field
- High environmental ratings to IP69K for use in high pressure, high temperature washdown applications
- Secure connections for both standard and high vibration environments
- Communication connectivity offered via USB or RJ45 interfaces
- Available in silver, black or chrome metal bezel

#### Aesthetic design

The attractive and ergonomic design of M22 pilot devices lends itself to both practical application and appeal. The operators are shaped to fit the curve of the hand and their distinctive design adds a high perceived value to the equipment on which they are mounted.

#### **Durable and safe**

When safety is a high priority, bright, clear color indication saves lengthy explanations and enhances machine safety. All M22 illuminated devices feature LED bulbs rated to 100,000 hours of continuous operation (equal to 11.5 years). They are vibration-proof and come in five different colors that match the colors of the M22 lenses. Matching the LED bulb color to the lens reinforces the button's color saturation and helps prevent interference from other light sources.

#### New metal bezel pushbutton

The M22 line now offers pilot devices with a metal bezel option. The new M22M pushbutton has an elegant chrome metal bezel that is attractive, durable and rugged for heavy-duty environments.

# The new M22M



metal bezel pushbutton



# Eaton has expanded its flagship line of M22 pilot devices with a metal bezel option

The new M22M maintains a low profile to keep panels compact and adds an elegant high polish chrome finish to front-of-panel components. M22M models are available in a wide range of pushbutton styles with flush, extended and mushroom buttons, potentiometers, joysticks and selector switches.

#### Features and benefits

- · Heavy-duty metal bezel construction
- · Durable and corrosion-resistant devices
- High compression operators that increase tactile feel during actuation
- Modular and configurable design that complements components within the M22 line
- SmartWire-DT™ connectivity options

For more information, visit: www.eaton.com/m22







# Front panel aesthetics, maximum flexibility and high-quality construction

## Highly flexible

Pushbuttons and selector switches are designed with a simple slide lever that allows for field conversion from maintained to momentary or vice versa. A simple lever or coding adapter can change the status of your device, giving you more flexibility in the field and less inventory costs at the warehouse.

Visit www.eaton.com/M22 for easy-to-follow video tutorials on this innovative feature.



### Convenient and secure installation

The entire line mounts in a standard 22 mm notched hole, which is the best assurance against rotation during installation and long-term use. The anti-rotation tab and central nut mounting on each operator facilitates installation, even when the front and back of the panel are not accessible simultaneously.



# Standard Pushbuttons

#### Flush

- · Momentary (dedicated)
- · Maintained or momentary (field convertible)
- · Illuminated and non-illuminated



#### Flush with Guard Ring

- · Momentary (dedicated)
- · Maintained or momentary (field convertible)
- Illuminated and non-illuminated



#### **Extended**

- · Momentary (dedicated)
- Maintained or momentary (field convertible)
- · Illuminated and non-illuminated





# Selector Switches

#### Thumb Grip

- · Illuminated and non-illuminated
- · Two-, three- and four-position
- · Maintained or momentary (field convertible)

#### Keyed

- Two- and three-position
- · Maintained or momentary (field convertible)

#### Rotary

- Two-, three- and four-position
- · Maintained or momentary (field convertible)









# **Indicators**

#### Light-Illuminated

Standard or conical lens, LED







#### Acoustic

· Continuous or pulsed tone option



## **HIGHEST** ENVIRONMENTAL RATINGS

All front elements are rated to a minimum IP66 environmental rating, protecting against high seas, sprayed water, oil and dirt. Many standard operators have more stringent IP67 and IP69K ratings, protecting from submersion and high-pressure/high-temperature washdown environments.





#### **Foot and Palm Switches**

These oversized operators measure almost 4 inches across and are perfectly suited for applications requiring repetitive or non-traditional methods of human interface such as the knee or the foot. They are also ideal for commercial applications such as handicapped entrances.



#### **Mushroom Head Actuators**

- · Momentary (dedicated)
- · Maintained or momentary (field convertible)
- Non-illuminated

# Extensive range for many applications

In addition to a wide array of standard operators, the M22 has special buttons for special applications. Multi-button operators, joysticks, potentiometers and alarm modules are part of this comprehensive line. The Eaton M22 series even includes USB and RJ45 connections for communication directly from a panel.

#### Potentiometer

· Oversized knob available



#### **Joystick Operator**

- · Two- and four-way
- · Maintained
- Momentary



#### **Multi-Button Non-Illuminated**

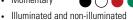






#### Multi-Button

- Momentary
- $lackbox{0} lackbox{0} lackbox{0}$







#### **Extended Reset Actuator**

- · Flush or extended
- Momentary



#### **Bulkhead Interface**

· For USB and RJ45 connections





# Broad selection of **Emergency Stops**

The M22 line includes 35 mm, 45 mm and 60 mm Emergency Stop buttons with internationally accepted 'twist-to-release' functionality. All are available in both keyed and non-keyed versions; illuminated and non-illuminated. A unique lighting ring is available for very high visibility applications where rapid and sure emergency stop activation is critical.



### Illuminated



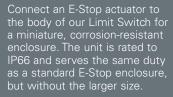
**Mechanical Indication** 



Keyed



E-Stop with **Miniature Enclosure** 



**Lighted LED Ring** 

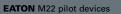


#### Self-Monitoring **Contact Blocks**

monitors both the actuation of the operator and to the operator.







# Designed for SmartWire-DT

The M22 line is designed to work with the new Eaton SmartWire-DT panel wiring system, which significantly reduces the time it takes to wire and commission complex control panels. The addition of a simple crimp-on connector module to each pilot device makes M22 an integral part of the panel control scheme.



# Wide variety of accessories

The M22 line also has a broad and useful range of accessories including various enclosures rated as high as IP69K. A large array of legend plates is also available for quick identification of function. Master lamp test contact blocks, various diaphragms, shrouds and plugs add even more functionality to this complete line.

**E-Stop Guard Rings** 





**Contact Blocks** 



**Legend Plates** 



**Enclosures** 







**DIN Rail Mounting Adapter** 



**LED Resistor and Test Elements** 



**Conduit Nut (Cable Guard)** 



Plugs, Diaphragms and Shrouds



**Mounting Ring Tool** 



**Contact Block Dust Covers** 



**Telescopic Clips** 



**Blanking Plugs** 



Adapter Ring for 30 mm Holes



# Three bezel options designed to suit your aesthetic requirements

black or silver and chrome metal bezel. With three bezel options to pick from, M22 pilot devices offer flexibility in enhancing aesthetics in front-of-panel components.









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