

Pushbuttons and Indicating Lights



E22/EM22 Pilot Devices

Product Description

Eaton’s Cutler-Hammer® 22.5 mm industrial heavy-duty pushbutton line offers a wide array of functional, smartly styled illuminated and non-illuminated pushbuttons, selector switches, push-pulls, alternate action and twist-to-release operators. The complete line also includes transformer, full voltage, resistor, LED or neon light units.

E22 operators are available with either a traditional chrome or matte black front-of-panel appearance. The space-saving design and modular construction of the E22 line makes on-the-job assembly fast and simplifies the stocking of both components and complete devices.

Eaton’s Cutler-Hammer EM22 metal series is a rugged line of metal construction 22.5 mm pushbutton devices. They are an extension of the industrially proven E22 heavy-duty double insulated 22.5 mm pushbutton family.

EM22 operators are heavy-duty zinc die-cast construction plated with a corrosion-resistant chromate finish. Operators are complete with a very durable chrome-plated metal bezel. Indicating light units in the EM22 series feature smartly styled round lenses that enhance their appearance and brightness.

All EM22 operators are compatible with existing E22 contact blocks, light units, accessories and enclosures.

EM22 metal operators and indicating lights are grounded when mounted to metal panels through the toothed mounting nut. They are not grounded when mounted to plastic panels.

Product History

E22 was first sold in 1983. The line has had one major change in the mid 1990s to increase the size of the button plates to be roughly equivalent to a 30mm pushbutton. Then in 2002, the EM22 extension of the line was introduced. Since then, only minor changes/additions have occurred. While the entire product breadth is not available anymore as aftermarket, most functionality is available in the products shown in this catalog.

Product History Time Line

Product	1980	1985	1990	1995	2000	2005	Present
E22							
EM22							

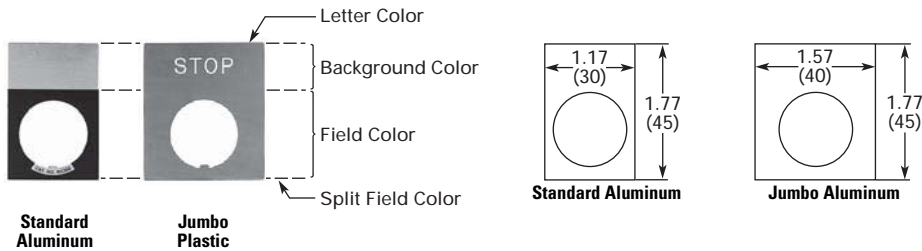
### Options

#### Engraved Legend Plates with Standard Markings—1/8-Inch High Character Size

**Aluminum**—Aluminum legend plates have a plastisol backing to help prevent rotation of the operator when installed in an unnotched hole. Operators installed with aluminum legend plates and legend plates with clip-in inserts maintain their UL Listed Type 4-4X-13 rating.

**Plastic**—Both the laminated plastic legend plates and the legend plates with clip-in inserts offer the choice of four background colors. Either side of the legend plate or insert can be field engraved.

#### Color Diagram and Approximate Dimensions in Inches (mm)



#### Engraved Legend Plates

Nameplate Type	Standard Aluminum with Plastisol Backing NEMA 3, 3R, 4, 4X, 12, 13 ①		Standard Plastic, NEMA 1 Only	
	Letter Color Background Color Field Color	Letter Color Background Color Field Color	Letter Color Background Color Field Color	Letter Color Background Color Field Color
Pushbutton	Black Silver Black	Black Silver Red	White Black Black	White Red Red
No engraving	E22NS36	E22NS37	E22NSP77	E22NSP77
CLOSE	E22NS11	—	—	—
DOWN	E22NS12	—	—	—
EMERG. STOP	—	E22NS13	—	—
FORWARD	E22NS15	—	—	—
JOG	E22NS19	—	—	—

#### Note

① To order jumbo legend plates, replace the fifth character with an **L**. For example E22NL87 is an aluminum, Jumbo legend plate marked "FASTER."