

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 | | | | | | | |

Replacement Capabilities**Momentary Contact Pushbuttons, Non-Illuminated—UL (NEMA) Type 3, 3R, 4, 4X, 12, 13**

Will accept maximum of three contact blocks (six circuits) when used with supplied three-way adapter and optional operator plug.

25 mm Diameter Flush Button

| E22 Series—Plastic Operators | | EM22 Series—Metal Operators | |
|------------------------------|-------------------------------|--------------------------------|--------------------------------|
| Color | Black Bezel Catalog Number | Chrome Bezel Catalog Number | Chrome Bezel Catalog Number |
| Black | E22PB1 | E22P1 | EM22P1 |
| Red | E22PB2 | E22P2 | EM22P2 |
| Green | E22PB3 | E22P3 | EM22P3 |

25 mm Diameter Extended Button

| E22 Series—Plastic Operators | | EM22 Series—Metal Operators | |
|------------------------------|-------------------------------|--------------------------------|--------------------------------|
| Color | Black Bezel Catalog Number | Chrome Bezel Catalog Number | Chrome Bezel Catalog Number |
| Red | E22EB2 | E22E2 | EM22E2 |

40 mm Diameter Mushroom Head Button

| E22 Series—Plastic Operators | | EM22 Series—Metal Operators | |
|------------------------------|-------------------------------|--------------------------------|--------------------------------|
| Color | Black Bezel Catalog Number | Chrome Bezel Catalog Number | Chrome Bezel Catalog Number |
| Black | E22LB1 | E22L1 | EM22L1 |
| Red | E22LB2 | E22L2 | EM22L2 |

50 mm Diameter Mushroom Head Button—Plastic

| E22 Series—Plastic Operators | | EM22 Series—Metal Operators | |
|------------------------------|-------------------------------|--------------------------------|--------------------------------|
| Color | Black Bezel Catalog Number | Chrome Bezel Catalog Number | Chrome Bezel Catalog Number |
| Red | E22JPB2 | E22JP2 | EM22JP2 |

Note

Operator plug E22BA2 required if third contact block is used. See **Page V12-T23-11**.