

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							

**Indicating Light Components****E22****EM22****Indicating Lights—Without Light Unit—UL (NEMA) Type 3, 3R, 4, 4X, 12, 13**

Color	E22 Series—Plastic Operators Catalog Number	EM22 Series—Metal Operators Catalog Number
	<b>25 mm Diameter Standard Lens <sup>①</sup></b>	
Red	E22H2	EM22H2
Green	E22H3	EM22H3
White	E22H5	EM22H5
Amber	E22H9	EM22H9
Clear	E22H0	EM22H0

**Push-Pull Components—Illuminated Operators**

Will accept a maximum of two contact blocks when used with supplied three-way adapter. Five-way mounting adapters are not to be used with three-position operators.

**E22 Black****E22 Chrome****EM22 Chrome****Illuminated Push-Pull Operators—UL (NEMA) Type 3, 3R, 4, 4X, 12, 13**

Color	E22 Series—Plastic Operators		EM22 Series—Metal Operators
	Black Bezel Catalog Number	Chrome Bezel Catalog Number	Chrome Bezel Catalog Number
<b>Two-Position—40 mm Diameter Lens <sup>②</sup> (Maintained)</b>			
Red	E22GDB2 <sup>①</sup>	E22GD2 <sup>①</sup>	EM22GD2 <sup>①</sup>
Green	E22GDB3	E22GD3	EM22GD3
<b>Three-Position—40 mm Diameter Lens <sup>②</sup> (Spring Return to Center)</b>			
Red	E22HDB2	E22HD2	—
Green	E22HDB3	E22HD3	—

**Notes**

<sup>①</sup> For LED/incandescent lamps, see **Page V12-T23-10**.

<sup>②</sup> All illuminated Push-Pull operators require tall LEDs from **Page V12-T23-10**.