

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 Units—One-Piece LED

- One-piece body style
- Plastic operators
- Full voltage LEDs
- Cluster-style integrated LED (non-removable)
- Plastic lenses

Non-Removable LED**Cluster LED Type Indicating Lights—Non-Removable LEDs—UL (NEMA) Type 3, 3R, 4, 4X, 12, 13**

Description	Supply Voltage	LED Color	Lamp Life ^①	Catalog Number
Includes permanently attached lens and board mounted, cluster style LEDs	24 Vac/Vdc	Red	100,000	E22HL2X4
		Green	100,000	E22HL3X4
		Amber	100,000	E22HL9X4
	110/120 Vac/Vdc	Red	100,000	E22HL2X8
		Green	100,000	E22HL3X8
		Amber	100,000	E22HL9X8

Indicating Light Units—One-Piece Incandescent

- One-piece body style
- Plastic operators
- Full voltage
- Bayonet base incandescent lamp

Incandescent Standard Lens**Incandescent Standard Lens Type Indicating Lights—UL (NEMA) Type 3, 3R, 4, 4X, 12, 13**

Description	Supply Voltage	Color	Lamp Life ^①	Catalog Number
Includes lens and T 3-1/4 bayonet base lamp	24 Vac/Vdc #1819 lamp	Red	2500	E22HV2X4
		Green	2500	E22HV3X4
		Amber	2500	E22HV9X4
	110/120 Vac/Vdc W1121 lamp	Red	1000	E22HV2X8
		Green	1000	E22HV3X8
		Amber	1000	E22HV9X8

Note

^① Published theoretical lamp lives are based on ideal laboratory conditions and should be used for comparison only. Actual life may be shorter due to application conditions.