



# 30.5 mm RUGGED PUSHBUTTONS

All models shown smaller than actual size.

- Epoxy-Coated Metal Operators
- Corrosion Resistant
- Integral Ground Screw Terminal on Operators
- FDA Approved for Sanitary Chemical Resistance Requirements



E34EB2, \$24.90



E34JB2, \$63



E34JB2N8, \$69.50



E34LB2, \$53



E34PB1, \$24.90



E34PB3, \$24.90

The E34 Series 30.5 mm pushbutton line features the same rugged die cast construction of our 10250T line with an additional two layer 100% solid thermosetting cathodic epoxy coating. This coating provides a flat black smooth, consistent, corrosion resistant surface that has passed a demanding 600 hour salt spray test. (The industry standard for this 4X test requires only 200 hours). E34 cathodic coating is not recommended for use in applications where

exposure to ultraviolet light exists—use NEMA 4X 10250T operators.

The contact blocks feature enclosed silver contacts with pointed “reliability nibs” for reliable performance from logic level up to 600V. To ensure reliable switching, nibs bite through oxide which can form on silver contacts, eliminating the need for expensive logic level blocks for most applications. The E34 Series pushbutton operators offer

front of panel drainage via holes in the operator bushing. Hidden from view by the mounting nut, these holes prevent buildup of liquid inside the operator, which can prevent operation in freezing environments. The holes also provide a route for escaping liquid in high pressure washdowns, effectively relieving pressure from the internal diaphragm seal, ensuring reliable sealing in applications even beyond NEMA 4.

## Build Your Own System

All models shown smaller than actual size.



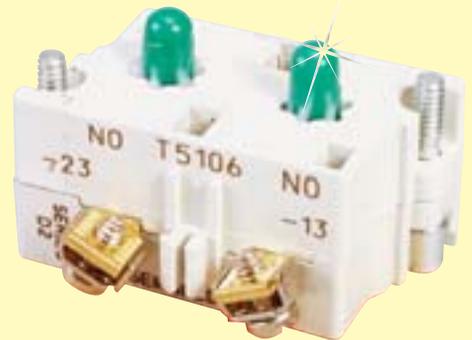
E34JB2, \$63

+

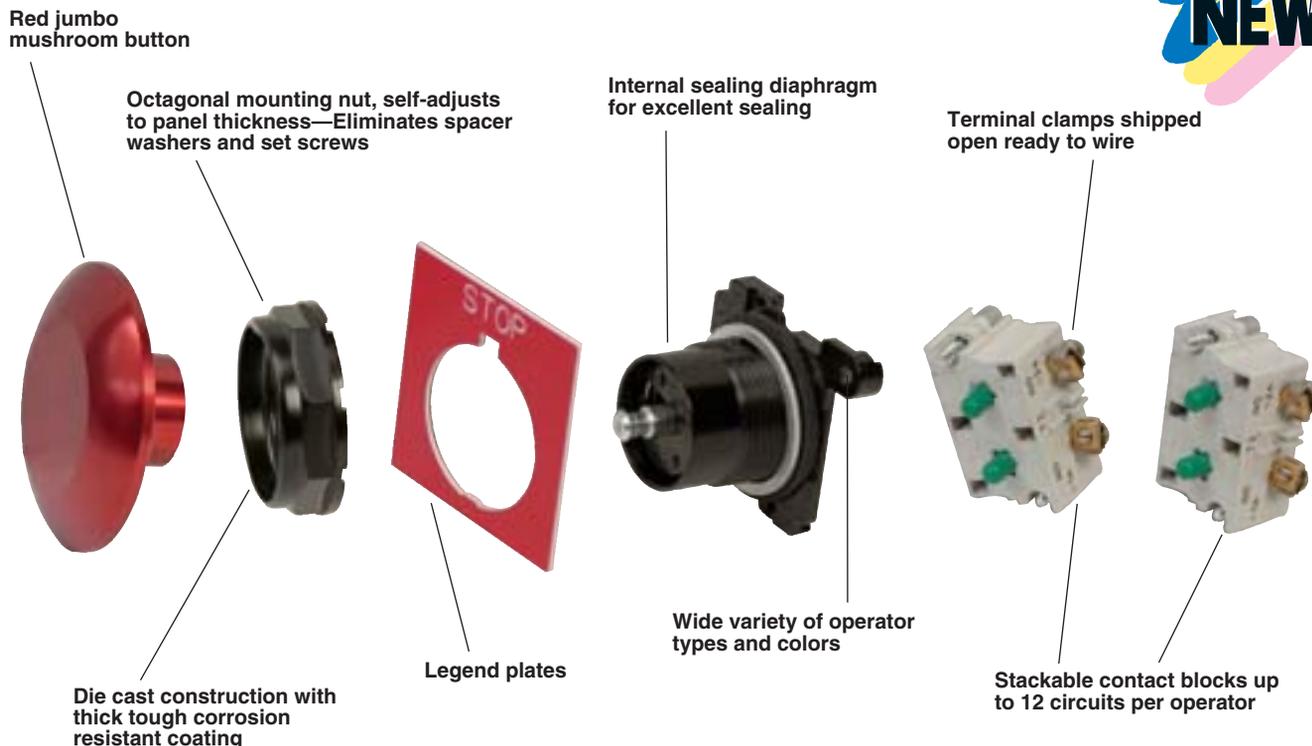


E34SP34, \$3.10

+



10250T2, \$27.50



E34 Series

## SPECIFICATIONS

### MECHANICAL RATINGS FREQUENCY OF OPERATION

**All Pushbuttons:** 6000 operations/hr  
**Key and Lever Selector Switches:** 3000 operations/hr

**Auto-Latch Devices:**  
1200 operations/hr life

**Pushbuttons:** 10 x 10<sup>6</sup> operations

**Contact Blocks:** 10 x 10<sup>6</sup> operations

**PresTest Units:** 10 x 10<sup>6</sup> operations

**Lever and Key Selector Switches:**  
0.25 x 10<sup>6</sup> operations

**Twist to Release Pushbuttons:**  
0.3 x 10<sup>6</sup> operations

**Shock Resistance Duration:**  
210 mS >= 5g

### CLIMATE CONDITIONS

**Operating Temperature:** -17 to 66°C  
(1 to 150°F)

**Storage Temperature:** -40 to 80°C  
(-40 to 176°F)

**Altitude:** 6,562' (2,000 m)

**Humidity:** Max. 95% RH @ 60°C

**Insulation:** U<sub>i</sub> = 660 VAC or DC

**Thermal:** I<sub>th</sub> = 10A

### SHORT CIRCUIT COORDINATION TO IEC/EN 60947-5-1

**Rated Conditional Short Circuit Current:** 1 kA

**Fuse Type:** GE Power Controls TIA 10, Red Spot Type gG, 10A, 660 VAC, 460 Vdc, BS88-2, IEC 60269-2-1

**UL Rating:** A600, P600 AC load life duty cycle

**1200 Operations/Hour – 10A:** 110V pf 0.4 – 1 x 10<sup>6</sup> operations – **5A:** 250V pf 0.4 – 1 x 10<sup>6</sup> Operations

**2A:** 660V pf 0.4 – 1 x 10<sup>6</sup> operations

Switching capacity AC15 rated make/break (11 x I<sub>e</sub> at 1.1 x U<sub>e</sub>)

**6A:** 120V pf 0.3, **4A:** 240V pf 0.3

**2A:** 660V pf 0.3 DC13 rated make/break (1.1 x I<sub>e</sub> at 1.1 x U<sub>e</sub>)

**1.0A:** 125V L/R >= 0.95 at 300 mS

**0.55A:** 250V L/R >= 0.95 at 300 mS

**0.1A:** 660V L/R >= 0.95 at 300 mS

**10A:** 110V pure resistive Maximum ratings for logic level and hostile atmosphere application

**Maximum Amperes:** 0.5A

**Maximum Volts:** 120 VAC/dc

**Low Voltage Switching:** Conical shaped points or “reliability nibs” improve performance in dry circuit, corrosive, fine dust and other contaminated

atmospheres. Under normal environmental conditions, the minimum operational voltage is 5V and the minimum operational current is 1 mA, AC/DC.

**Contact Operation:** Slow make and break. All normally closed contacts have positive opening operation, i.e., normally closed contacts are forced open in the event of contact weld or spring breakage.

### LIGHT UNITS

**Transformers:** will withstand short circuit for 1 hour per IEC 60947-5-1  
**Bulbs—average life:**

**Transformer Type:** 20,000 hrs.

**Resistor/Direct Voltage Type:** 2500 hrs minimum @ rated V

**LED:** 60,000 to 100,000 hrs

### TERMINALS

**Marking:** NC-NO on the contact block to meet the NEMA requirements. Dual marking system 1 to 2 for normally closed, 3 to 4 for normally open to meet BS5472 (Cenelec EN50 005).

**Clamps:** Terminals are saddle clamp type for 1 x 22 AWG (0.34 mm<sup>2</sup>) to 2 x 14 AWG (2.5 mm<sup>2</sup>) conductors. Torque = 7 lb-in (0.8 Nm) Degree of protection against direct electrical contact: IP2X with fingerproof shroud



E34EB2, \$24.90



E34JB2, \$63



E34LB2, \$53



E34PB1, \$24.90



E34JB2N8, \$69.50



E34PB3, \$24.90

All models shown smaller than actual size.

**To Order** (Specify Model Number)

**AVAILABLE FOR FAST DELIVERY!**

MODEL NO.	PRICE	DESCRIPTION
<b>E34 OPERATORS</b>		
E34EB2	\$24.90	Red extended pushbutton operator
E34JB2	63.00	Red JUMBO mushroom head operator
E34JB2N8	69.50	E-STOP mushroom operator
E34LB2	53.00	Red mushroom head operator
E34PB1	24.90	Black flush pushbutton operator
E34PB3	24.90	Green flush pushbutton operator

Includes instruction sheet

Ordering Example: E34EB2, red extended pushbutton operator, \$24.90.



E34RB120, \$75



E34RPB120, \$103



E34TPB120, \$122



E34SB120, \$75



E34TB120, \$92

All models shown smaller than actual size.

**To Order** (Specify Model Number)

**AVAILABLE FOR FAST DELIVERY!**

MODEL NO.	PRICE	DESCRIPTION
<b>ILLUMINATED PUSHBUTTONS AND INDICATING LIGHTS</b>		
E34RB120	\$75	120V full voltage/resistor type, no lens
E34RPB120	103	PresTest 120V full voltage/resistor type, no lens
E34SB120	75	Illuminated pushbutton operator 120V, no lens
E34TB120	92	120V transformer type, no lens
E34TPB120	122	PresTest 120V transformer type, no lens

Includes instruction sheet

Ordering Example: E34RB120, 120V full voltage/resistor type, no lens, \$75.



E34G2, \$11.70



E34G3, \$11.70



E34G5, \$11.70



E34G9, \$11.70



E34H2, \$6.55



E34H3, \$6.55



E34H5, \$6.55



E34H9, \$6.55



E34P2, \$11.70



E34P3, \$11.70



E34P9, \$11.70

All models shown smaller than actual size.



E34V3, \$6.55



E34V2, \$6.55



E34V9, \$6.55

**To Order** (Specify Model Number)

**AVAILABLE FOR FAST DELIVERY!**

MODEL NO.	PRICE	DESCRIPTION
<b>E34 LENS FOR INDICATING LIGHTS</b>		
E34G2	\$11.70	RED, glass (for indicating lights)
E34G3	11.70	GREEN, glass (for indicating lights)
E34G5	11.70	WHITE, glass (for indicating lights)
E34G9	11.70	AMBER, glass (for indicating lights)
E34H2	6.55	RED, plastic (for indicating lights)
E34H3	6.55	GREEN, plastic (for indicating lights)
E34H5	6.55	WHITE, plastic (for indicating lights)
E34H9	6.55	AMBER, plastic (for indicating lights)
E34P2	11.70	RED, glass (for PresTest or illuminated pushbuttons)
E34P3	11.70	GREEN, glass (for PresTest or illuminated pushbuttons)
E34P9	11.70	AMBER, glass (for PresTest or illuminated pushbuttons)
E34V2	6.55	RED, plastic (for PresTest or illuminated pushbuttons)
E34V3	6.55	GREEN, plastic (for PresTest or illuminated pushbuttons)
E34V9	6.55	AMBER, plastic (for PresTest or illuminated pushbuttons)

Includes instruction sheet

Ordering Example: E34G2, RED, glass (for indicating lights), \$11.70.



E34C2, \$7



E34C2N8, \$7



E34J2, \$38



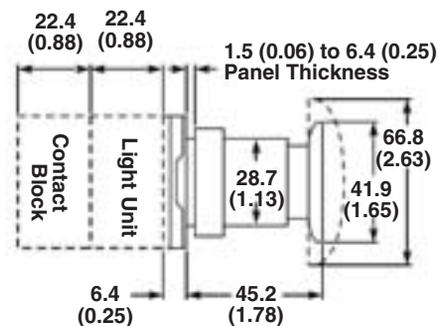
E34J2N8, \$38



E34M2, \$7



E34M2N8, \$7



Dimensions: mm (in)

**To Order** (Specify Model Number)

All models shown smaller than actual size.

**AVAILABLE FOR FAST DELIVERY!**

MODEL NO.	PRICE	DESCRIPTION
<b>E34 PUSHBUTTONS - HEAD AND LENS</b>		
E34C2	\$7.00	Red Button for non-illuminated Push-Pull
E34C2N8	7.00	Red (EMERGENCY STOP) for non-illuminated Push-Pull
E34J2	38.00	Red jumbo mushroom head for non-illuminated Push-Pull
E34J2N8	45.00	Red jumbo mushroom head (EMERGENCY STOP) for non-illuminated Push-Pull
E34M2	7.00	Red lens for illuminated Push-Pull
E34M2N8	7.00	Red (EMERGENCY STOP) lens for illuminated Push-Pull

Includes instruction sheet

Ordering Example: E34C2, red button for non-illuminated Push-Pull, \$7.00.



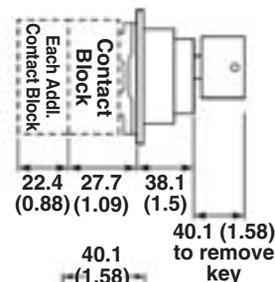
E34KFB1, \$90



E34KGB4, \$90



E34VFBK1, \$34.25



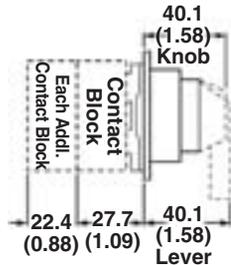
E34VFBL1, \$34.25



E34VGBK1, \$34.25



E34VGBL1, \$34.25



Dimensions: mm (in)

**To Order** (Specify Model Number)

**AVAILABLE FOR FAST DELIVERY!**

MODEL NO.	PRICE	DESCRIPTION
<b>E34 SELECTOR SWITCHES</b>		
E34KFB1	\$90.00	2 position maintained selector switch - keyed
E34KGB4	90.00	3 position maintained selector switch - keyed
E34VFBK1	34.25	2 position maintained selector switch - knob
E34VFBL1	34.25	2 position maintained selector switch - lever
E34VGBK1	34.25	3 position maintained selector switch - knob
E34VGBL1	34.25	3 position maintained selector switch - lever

Includes instruction sheet

Ordering Example: E34KFB1, 2 position maintained selector switch - keyed, \$90.00.



E34VFBK1-X1, \$63



E34VHBL1-Y2, \$90

All models shown smaller than actual size.

**To Order** (Specify Model Number)

**AVAILABLE FOR FAST DELIVERY!**

MODEL NO.	PRICE	DESCRIPTION
<b>E34 COMMON COMPLETE DEVICES (INCLUDES CONTACT BLOCKS)</b>		
E34VFBK1-X1	\$63.00	ON-OFF switch (Black knob switch c/w NO/NC contact block)
E34VHBL1-Y2	90.00	H-O-A switch (Black lever switch c/w 2 NO/2 NC contact blocks)

Includes instruction sheet

Ordering Example: E34VFBK1-X1, ON-OFF switch, \$63.00.



10250T2, \$27.50



10250T1, \$28.00



10250T3, \$27.50

All models shown smaller than actual size.



10250T51, \$13.90



10250T53, \$13.90

**To Order** (Specify Model Number)

**AVAILABLE FOR FAST DELIVERY!**

MODEL NO.	PRICE	DESCRIPTION
<b>CONTACT BLOCKS</b>		
10250T1	\$28.00	Contact block, 1 NO/1 NC
10250T2	27.50	Contact block, 2 NO
10250T3	27.50	Contact block, 2 NC
10250T51	13.90	Contact block, 1 NC
10250T53	13.90	Contact block, 1 NO

Includes instruction sheet

Ordering Example: 10250T1, contact block, 1 normally open, 1 normally closed, \$28.



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