



NEMA Ruggedness at IEC Prices

Cutler-Hammer

Overview

We took advantage of the experience of Cutler-Hammer engineering to take existing product technology and make it better. From the corrosion-resistant anodized mounting rings to the optically-enhanced lenses on our indicators, the HT800 30mm line finishes out your control panel in style. Extended lamps and LEDs provide better side illumination in our indicators and illuminated pushbuttons. Watertight double V gaskets stand between the environment and your control system. Use them indoors or out. They're protected to NEMA 1, 2, 3, 3R, 4, 4X, 12, and 13.

30mm Pushbuttons

Available in
green, black,
and red



Flush and
Extended



Illuminated
(in seven colors)



Guarded Illuminated
(in seven colors)



Push-pull
Illuminated



Mushroom

Check out the Features



Color-coded
contact blocks

Double V Gasket Seals

Anodized aluminum
mounting ring

Grounding kits included
with each device

Stack contact blocks up to six deep by two wide
on pushbutton operators. Contact capacity varies
with operator.

30mm Selector Switches



(in knob or lever versions)

30mm Indicating Lights



(in seven colors)

30mm Push-to-Test Indicators



* Cutler-Hammer products are available for sale to North America locations only.



Cutler-Hammer

HT800 30mm Pushbuttons

Specifications

Overview

The HT800 family of 30.5 mm pushbutton devices includes momentary, illuminated and mushroom-head pushbuttons, selector switches, indicating lights and push-pull switches.

Features

- Anodized aluminum mounting rings
- Watertight double V-gasket seals
- Extended height bulbs
- Transparent housing contact blocks
- Color-coded contact blocks
- Gold-plated contacts (on low voltage contact block)
- Reliability ridge on movable contact
- Stackable screw-mounted contact blocks
- Contact blocks can be mounted in left/right or top/bottom positions
- Standard N.C. contact opens before N.O. contact closes (break before make operation)
- Bright and long lasting LED indicating lights in six colors
- Field convertible maintained selector switches from two-position to three-position and vice versa
- Field selectable knob/lever mounting positions – at any 22.5° increment

Benefits

- Corrosion resistant NEMA 4X finish
- Watertight and oil-tight NEMA 4, 13 ingress protection
- Increased side illumination of indicating lights and illuminated pushbuttons
- Easy visual inspection of contact conditions
- Easily identifiable N.O. (white) or N.C. (black) contact blocks
- Gold-plated contacts suitable for logic level circuits
- Reliability ridge penetrates contamination buildup on stationary contacts
- Left/right or top/bottom mounted contact blocks allow correct positioning in retrofit applications
- All-purpose selector switches are convertible and can rotate in 22.5° increments to suit panel layouts

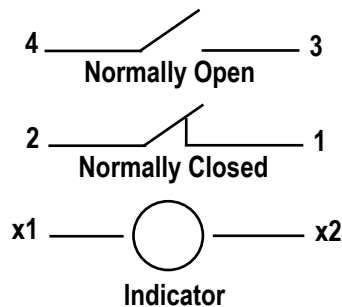
Standards and Certifications

- UL508, File No. E131568
- CSA C22.2 No. 14, File No. LR68551

Ingress Protection

- UL (NEMA) 1, 2, 3, 3R, 4, 4X, 12 and 13 when mounted in similarly rated enclosures

Typical Wiring





Cutler-Hammer

HT800 30mm Pushbuttons

Specifications

HT800 — Specifications	
Mechanical Ratings	
Frequency of Operation	
Pushbuttons	6,000 Operations per hour
Selector Switches	3,000 Operations per hour
Push-Pull Operators	3,000 Operations per hour
Mechanical Endurance/Life	
Pushbuttons	10 x 10 ⁶ Operations 6K Ops/Hr with 6 N.O. on left and 6 N.C. on right
Selector Switches	250 x 10 ³ Operations 3K Ops/Hr with 2 N.O. on left and 2 N.C. on right
Push-Pull Operators	250 x 10 ³ Operations 3K Ops/Hr with 6 N.O. on left and 6 N.C. on right
Environmental Specifications	
Operating Temperature	10 to 140°F (-12° to 60°C)
Storage Temperature	-40 to 176°F (-40° to 80°C)
Altitude	6,562 ft. (2,000m)
Humidity	95% RH @ 60°C
Terminals	
Contact Blocks	#6-32 posi-drive saddle clamp type, 1 x 16 AWG to 2 x 14 AWG, 12 in-lbs max.
Light Units	#6-32 posi-drive saddle clamp type, 1 x 22 AWG to 2 x 14 AWG, 7 in-lbs max.

HT800 Standard Contact Blocks UL (NEMA) Rating				
Electrical Ratings Description/Function	Contact Type	Catalog Number	AC	DC
Standard Normally Open contact	N.O.	HT8A	A600	P600
Standard Normally Closed contact	N.C.	HT8B	A600	P600
Normally Open Early Make Contact will make circuit before standard N.O. contact. DC ratings do not apply.	N.O.E.M.	HT8C	A600	—
Normally Closed Late Break contact will open after standard N.C. contact. DC ratings do not apply.	N.C.L.B.	HT8D	A600	—
Logic level, low voltage N.O. contact. Gold plated contacts.	N.O.	HT8E	5V 1mA (minimum) 28V 500mA (maximum)	

UL (NEMA) A600 and P600 Ratings							
Description	Volts AC 50/60 Hz				Volts DC ¹		
	120	240	480	600	125	250	600
Make and Emerg. Interrupting Capacity (Amp)	60	30	15	12	1.1	0.55	0.2
Normal Load Break (Amp)	6	3	1.5	1.2	1.1	0.55	0.2
Thermal Current (Amp)	10	10	10	10	5	5	5
Volt amperes							
Make and Emerg. Interrupting Capacity	7200	7200	7200	7200	138 ²	138 ²	138 ²
Normal Load Break	720	720	720	720	138	138	138

Note: 1: DC ratings do not apply to N.O.E.M. (Normally Open Early Make) and N.C.L.B. (Normally Closed Late Break) contact blocks HT8C and HT8D.

2: Maximum make or break volt-amperes at 300V or less



Cutler-Hammer

HT800 30mm Momentary Pushbuttons



Flush

[HT8AAG](#)

Extended

[HT8ABR](#)

Mushroom

[HT8AEH](#)

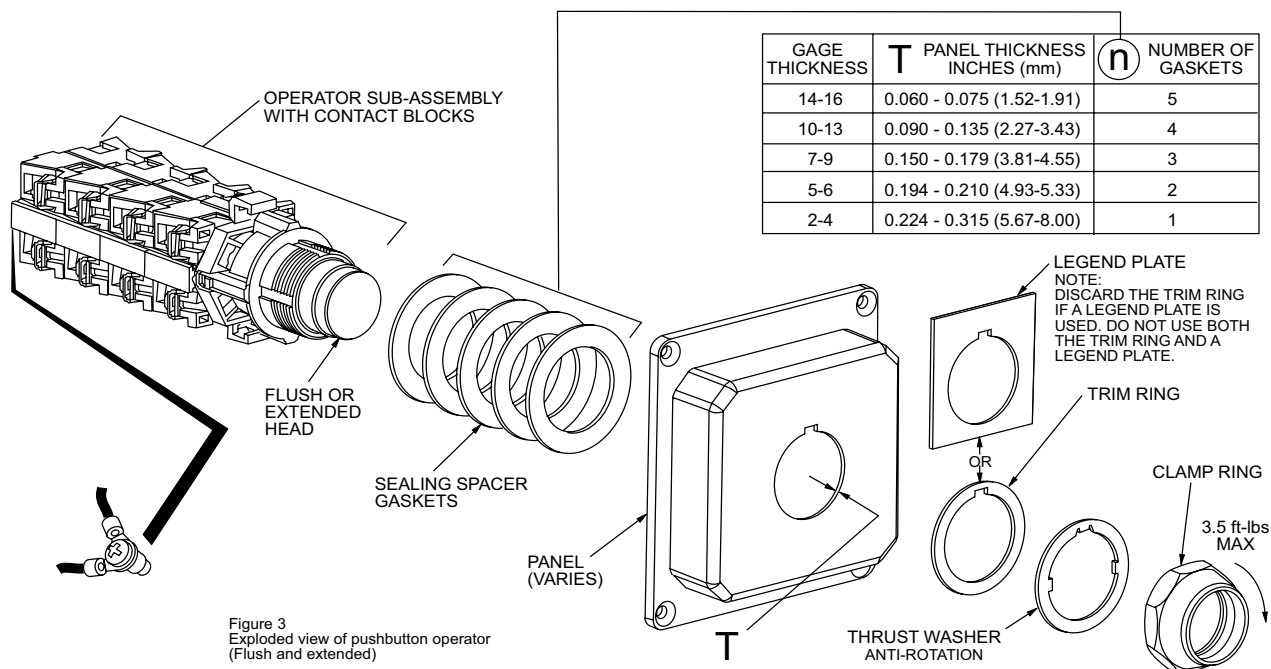
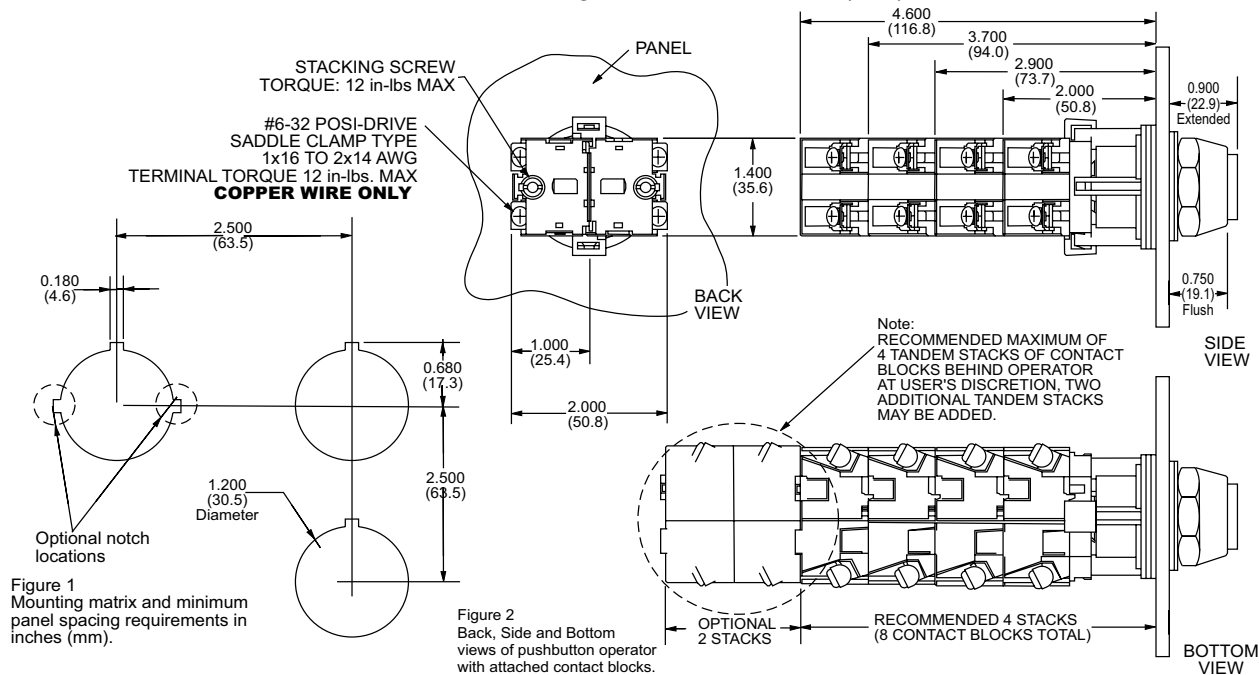
HT800 30mm Momentary Pushbuttons							
Contact Type	Button Color	Flush Head Momentary		Extended Head Momentary		Mushroom Head Momentary	
		Part Number	Price	Part Number	Price	Part Number	Price
Operator Only, No Contacts	Black	<u>HT8AAH</u>	\$29.50	<u>HT8ABH</u>	\$29.50	<u>HT8AEH</u>	\$61.00
	Red	<u>HT8AAR</u>	\$29.50	<u>HT8ABR</u>	\$29.50	<u>HT8AER</u>	\$61.00
	Green	<u>HT8AAG</u>	\$29.50	<u>HT8ABG</u>	\$29.50	<u>HT8AEG</u>	\$61.00
1 N.O.	Black	<u>HT8AAHA</u>	\$46.00	<u>*HT8ABHA</u>	\$46.00	<u>*HT8AEHA</u>	\$79.00
	Red	<u>*HT8AARA</u>	\$46.00	<u>*HT8ABRA</u>	\$46.00	<u>*HT8AERA</u>	\$79.00
	Green	<u>*HT8AAGA</u>	\$44.50	<u>*HT8ABGA</u>	\$46.00	<u>*HT8AEGA</u>	\$79.00
1 N.C.	Black	<u>*HT8AAHB</u>	\$46.00	<u>*HT8ABHB</u>	\$46.00	<u>*HT8AEHB</u>	\$79.00
	Red	<u>*HT8AARB</u>	\$46.00	<u>*HT8ABRB</u>	\$46.00	<u>*HT8AERB</u>	\$79.00
	Green	<u>*HT8AAGB</u>	\$46.00	<u>*HT8ABGB</u>	\$46.00	<u>*HT8AEGB</u>	\$79.00
1 N.O. and 1 N.C.	Black	<u>*HT8AAHAB</u>	\$61.00	<u>*HT8ABHAB</u>	\$61.00	<u>*HT8AEHAB</u>	\$96.00
	Red	<u>*HT8AARAB</u>	\$61.00	<u>*HT8ABRAB</u>	\$61.00	<u>*HT8AERAB</u>	\$96.00
	Green	<u>*HT8AAGAB</u>	\$61.00	<u>*HT8ABGAB</u>	\$61.00	<u>*HT8AEGAB</u>	\$96.00
2 N.O. and 2 N.C.	Black	<u>*HT8AAHF1Q1</u>	\$96.00	<u>*HT8ABHF1Q1</u>	\$96.00	<u>*HT8AEHF1Q1</u>	\$125.00
	Red	<u>*HT8AARF1Q1</u>	\$96.00	<u>*HT8ABRF1Q1</u>	\$96.00	<u>*HT8AERF1Q1</u>	\$125.00
	Green	<u>*HT8AAGF1Q1</u>	\$96.00	<u>*HT8ABGF1Q1</u>	\$96.00	<u>*HT8AEGF1Q1</u>	\$125.00

Notes: A grounding kit is included with each operator or switch assembly.

Part numbers with an * are kitted from individual components at AutomationDirect. The individual components are picked and shipped in the same shipping box. Final assembly of the individual components must be done by the customer.

HT800 30mm Momentary Pushbuttons

30.5 mm Pushbutton Installation and Mounting Instructions - inches (mm)



HT800 30mm Two-position Push-pull Button



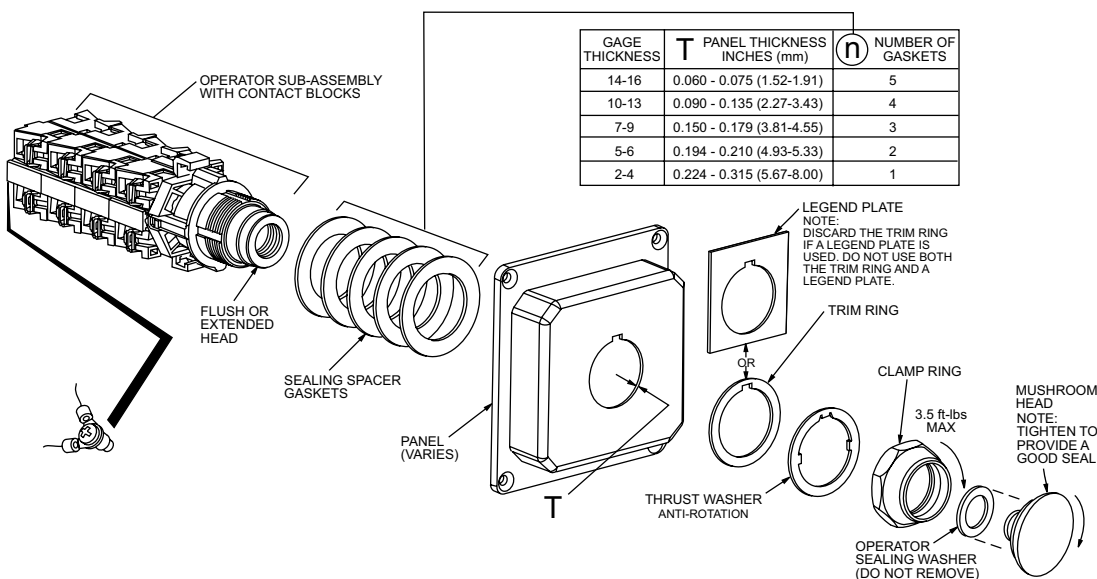
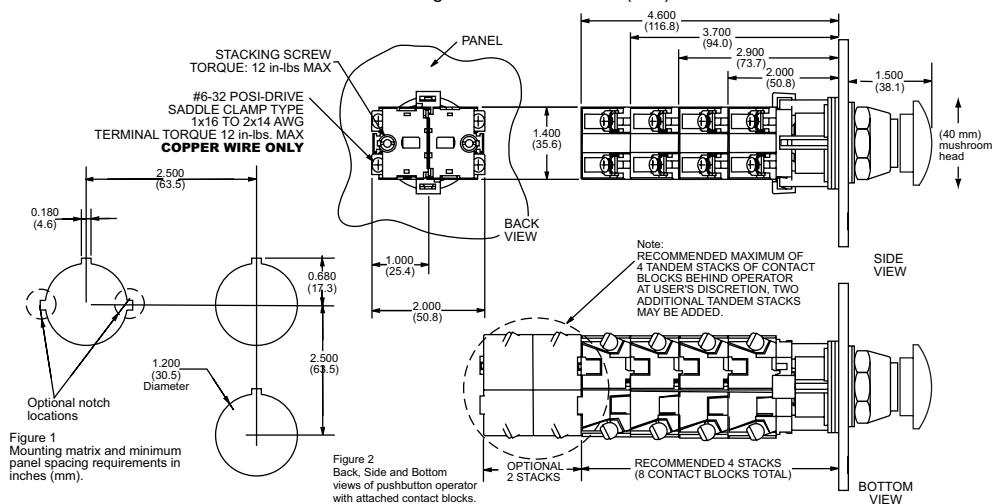
HT8CBR

Contact Configuration	Operator Position		Two-position Maintained Push-Pull		
	Out	In	Color	Part Number	Price
Operator Only	-----		Red	HT8CBR	\$96.00
1 N.C.	X	O	Red	*HT8CBRB	\$112.00
1 N.O. and 1 N.C.	"O" X"	"X" O"	Red	*HT8CBRAB	\$125.00

Notes: A grounding kit is included with each operator or switch assembly.

Part numbers with an * are kitted from individual components at AutomationDirect. The individual components are picked and shipped in the same shipping box. Final assembly of the individual components must be done by the customer.

30.5 mm Pushbutton Installation and Mounting Instructions - inches (mm)



HT800 30mm Push-Pull Illuminated Pushbutton

Contact Configuration	24 Volt Incandescent full Voltage Lamp 50mA @ 24 Volts	Price	120 Volt Incandescent Full Voltage Lamp 19mA @ 120 Volts	Price	24 Volt LED full Voltage Lamp	Price	120 Volt LED full Voltage Lamp	Price
Red Lens								
Operator only	<i>HT8FBRV3</i>	\$166.00	<i>HT8FBRV7</i>	\$166.00	<i>HT8FBRF3</i>	\$182.00	<i>HT8FBRF7</i>	\$182.00
1 N.O.	<i>*HT8FBRAV3</i>	\$159.00	<i>*HT8FBRAV7</i>	\$159.00	<i>*HT8FBRAF3</i>	\$175.00	<i>*HT8FBRAF7</i>	\$175.00
1 N.C.	<i>*HT8FBRBV3</i>	\$159.00	<i>*HT8FBRBV7</i>	\$159.00	<i>*HT8FBRBF3</i>	\$175.00	<i>*HT8FBRBF7</i>	\$175.00
Green Lens								
Operator only	<i>HT8FBGV3</i>	\$166.00	<i>HT8FBGV7</i>	\$166.00	<i>HT8FBGF3</i>	\$182.00	<i>HT8FBGF7</i>	\$182.00
1 N.O.	<i>*HT8FBGAV3</i>	\$159.00	<i>*HT8FBGAV7</i>	\$159.00	<i>*HT8FBGAF3</i>	\$175.00	<i>*HT8FBGAF7</i>	\$175.00
1 N.C.	<i>*HT8FBGBV3</i>	\$159.00	<i>*HT8FBGBV7</i>	\$159.00	<i>*HT8FBGBF3</i>	\$175.00	<i>*HT8FBGBF7</i>	\$175.00

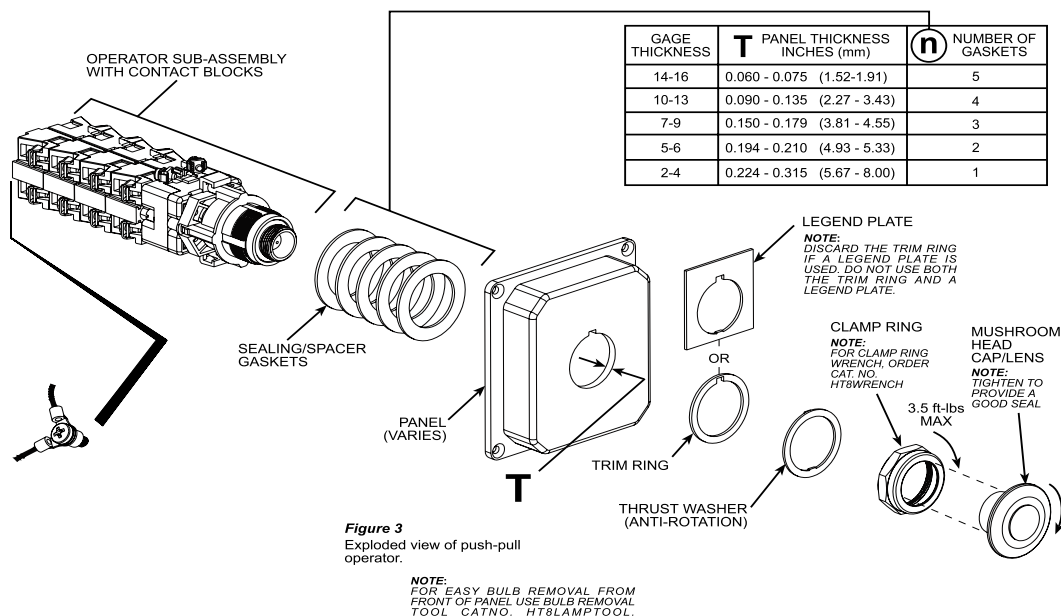
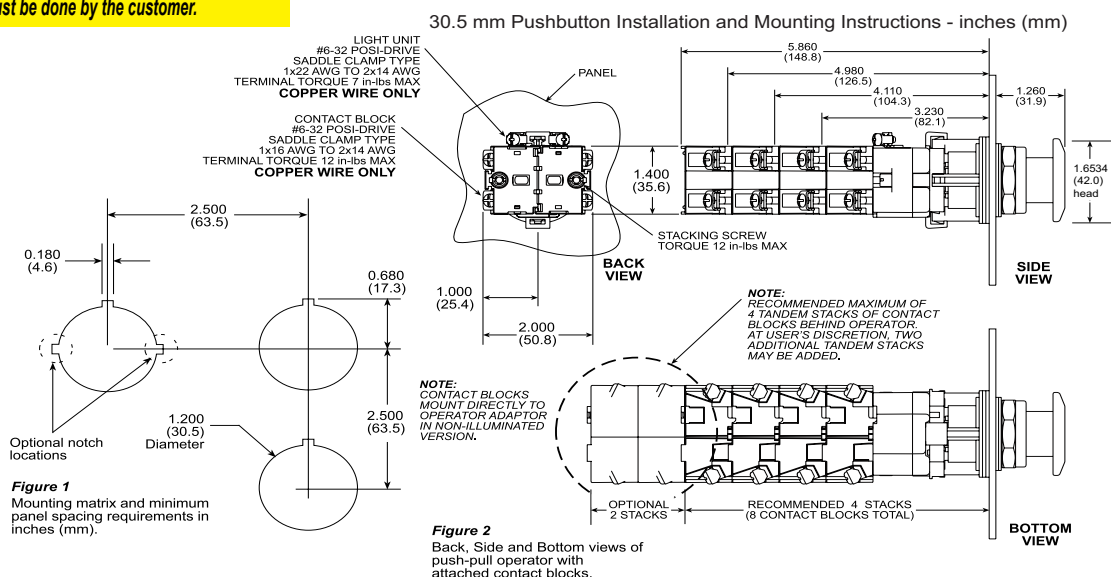
Notes: A grounding kit is included with each operator or switch assembly.
***Part numbers with an *** are kitted from individual components at AutomationDirect.
 The individual components are picked and shipped in the same shipping box. Final assembly of the individual components must be done by the customer.



HT8FBRV3



HT8FBGF3



HT800 30mm Selector Switches

**HT8JAH3A** knob version**HT8JDH3A** lever version**HT8JBH1D** knob version**HT8JEH1D** lever version

Two-position Selector Switches

Contact Type	Operator Type M=Maintained S=Spring Return	Standard Black Knob Operator		Standard Black Lever Operator	
		Part Number	Price	Part Number	Price
No Contacts	M M	HT8JAH3A	\$39.00	HT8JDH3A	\$39.00
	M<S	HT8JNH3A	\$62.00	HT8JPH3A	\$62.00
1 N.O.	M M	* HT8JAH3AA5	\$56.00	* HT8JDH3AA5	\$56.00
	M<S	* HT8JNH3AA5	\$79.00	* HT8JPH3AA5	\$79.00

Switch Part Numbers	Contact Blocks		Cam Code 3A	
HT8JAH3A , HT8JNH3A , HT8JAH3AA5 , HT8JNH3AA5 , HT8JDH3A , HT8JPH3A , HT8JDH3AA5 , HT8JPH3AA5 (Contact block configuration varies with part number)	Left	Right	Switch Position	
	N.O.	-----	X	0
	N.C.	-----	0	X
	-----	N.O.	0	X
Two-position Selector Switch	-----	N.C.	X	0
			X = On	0 = Off

Note: AutomationDirect only offers cam code 3A for two position selector switches.

Notes: A grounding kit is included with each operator or switch assembly. Part numbers with an * are kitted from individual components at AutomationDirect. The individual components are picked and shipped in the same shipping box. Final assembly of the individual components must be done by the customer.

Three-position Selector Switches

Contact Type	Operator Type M=Maintained S=Spring Return	Standard Black Knob Operator		Standard Black Lever Operator	
		Part Number	Price	Part Number	Price
No Contacts	M M M	HT8JBH1D	\$39.00	HT8JEH1D	\$39.00
	M M < S	HT8JUH1D	\$62.00	HT8JVH1D	\$62.00
	S > M < S	HT8JXH1D	\$62.00	HT8JYH1D	\$62.00
2 N.O.	M M M	HT8JBH1DAA5	\$73.00	* HT8JEH1DAA5	\$73.00
	M M < S	* HT8JUH1DAA5	\$96.00	* HT8JVH1DAA5	\$96.00
	S > M < S	* HT8JXH1DAA5	\$96.00	* HT8JYH1DAA5	\$96.00

Switch Part Numbers	Contact Blocks		Cam Code 1D		
HT8JBH1D , HT8JUH1D , HT8JXH1D , HT8JBH1DAA5 , HT8JUH1DAA5 , HT8JXH1DAA5 , HT8JEH1D , HT8JVH1D , HT8JYH1D , HT8JEH1DAA5 , HT8JVH1DAA5 , HT8JYH1DAA5 (Contact block configuration varies with part number)	Left	Right	Switch Position		
	N.O.	-----	X	0	0
	N.C.	-----	0	X	X
Three-position Selector Switch	-----	N.O.	0	0	X
	-----	N.C.	X	X	0
	*N.O.-----	-----N.O.	X	0	X
	**N.C.-----	-----N.C.	0	X	0
			X = On	0 = Off	

* Indicates contact blocks wired in parallel

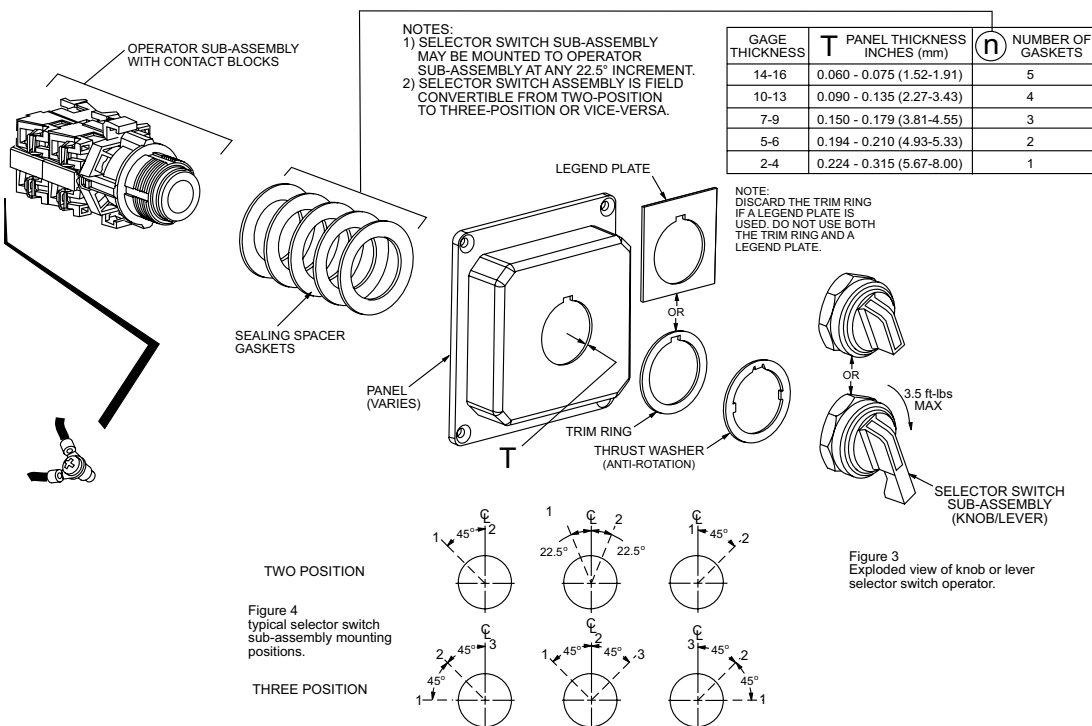
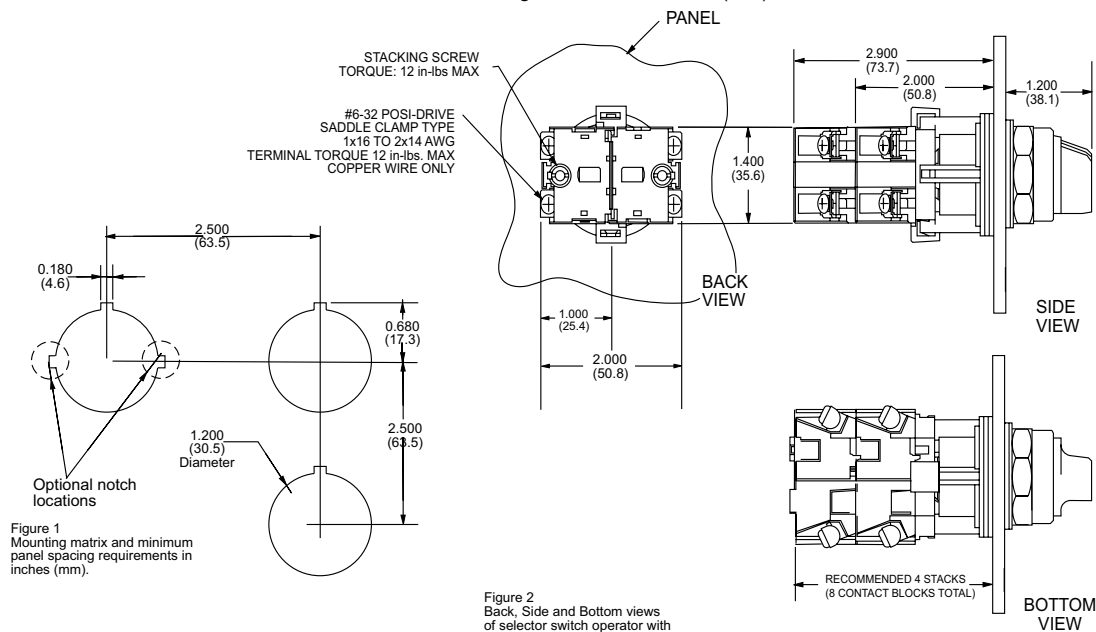
** Indicates contact blocks wired in series

Note: AutomationDirect only offers cam code 1D for three-position selector switches.

Note: For additional contact blocks, see HT800 accessories in this section.

HT800 30mm Three-position Selector Switches

30.5 mm Selector Switch Installation and Mounting Instructions - inches (mm)





Cutler-Hammer

HT800 30mm Extended Illuminated Pushbuttons

HT8GBRV7HT8GBGV7HT8GBAV7HT8GBCV7

HT800 30mm Extended Illuminated Pushbuttons				
Contact Configuration	24 Volt Incandescent full Voltage Lamp 50mA @ 24 Volts	Price	120 Volt Incandescent Full Voltage Lamp 19mA @ 120 Volts	Price
Red Lens				
Operator only	<u>HT8GBRV3</u>	\$96.00	<u>HT8GBRV7</u>	\$96.00
1 N.O.	* <u>HT8GBRAV3</u>	\$112.00	* <u>HT8GBRAV7</u>	\$112.00
1 N.C.	* <u>HT8GBRBV3</u>	\$112.00	* <u>HT8GBRBV7</u>	\$112.00
Green Lens				
Operator only	<u>HT8GBGV3</u>	\$96.00	<u>HT8GBGV7</u>	\$96.00
1 N.O.	* <u>HT8GBGAV3</u>	\$112.00	* <u>HT8GBGAV7</u>	\$112.00
1 N.C.	* <u>HT8GBGBV3</u>	\$112.00	* <u>HT8GBGBV7</u>	\$112.00
Amber Lens				
Operator only	<u>HT8GBAV3</u>	\$96.00	<u>HT8GBAV7</u>	\$96.00
1 N.O.	* <u>HT8GBAAV3</u>	\$112.00	* <u>HT8GBAAV7</u>	\$112.00
1 N.C.	* <u>HT8GBABV3</u>	\$112.00	* <u>HT8GBABV7</u>	\$112.00
Clear Lens				
Operator only	<u>HT8GBCV3</u>	\$96.00	<u>HT8GBCV7</u>	\$96.00
1 N.O.	* <u>HT8GBCAV3</u>	\$112.00	* <u>HT8GBCAV7</u>	\$112.00
1 N.C.	* <u>HT8GBCBV3</u>	\$112.00	* <u>HT8GBCBV7</u>	\$112.00
White Lens				
Operator only	<u>HT8GBWV3</u>	\$96.00	<u>HT8GBWV7</u>	\$96.00
1 N.O.	* <u>HT8GBWAV3</u>	\$112.00	* <u>HT8GBWAV7</u>	\$112.00
1 N.C.	* <u>HT8GBWBV3</u>	\$112.00	* <u>HT8GBWBV7</u>	\$112.00
Yellow Lens				
Operator only	<u>HT8GBYV3</u>	\$96.00	<u>HT8GBYV7</u>	\$96.00
1 N.O.	* <u>HT8GBYAV3</u>	\$112.00	* <u>HT8GBYAV7</u>	\$112.00
1 N.C.	* <u>HT8GBYBV3</u>	\$112.00	* <u>HT8GBYBV7</u>	\$112.00
Blue Lens				
Operator only	<u>HT8GBBV3</u>	\$96.00	<u>HT8GBBV7</u>	\$96.00
1 N.O.	* <u>HT8GBBAV3</u>	\$112.00	* <u>HT8GBBAV7</u>	\$112.00
1 N.C.	* <u>HT8GBBBV3</u>	\$112.00	* <u>HT8GBBBV7</u>	\$112.00
Spare Incandescent Lamps For HT8 Series				
Spare lamp	<u>HT8BULBV3</u>	\$14.00	<u>HT8BULBV7</u>	\$14.00

See HT800 accessories in this section.

Notes: A grounding kit is included with each operator or switch assembly.

Part numbers with an * are kitted from individual components at AutomationDirect. The individual components are picked and shipped in the same shipping box. Final assembly of the individual components must be done by the customer. Lens not sold separately.

HT8GBWV7HT8GBYV7HT8GBBV7

HT800 30mm Extended Illuminated Pushbuttons

30.5 mm Pushbutton Installation and Mounting Instructions - inches (mm)

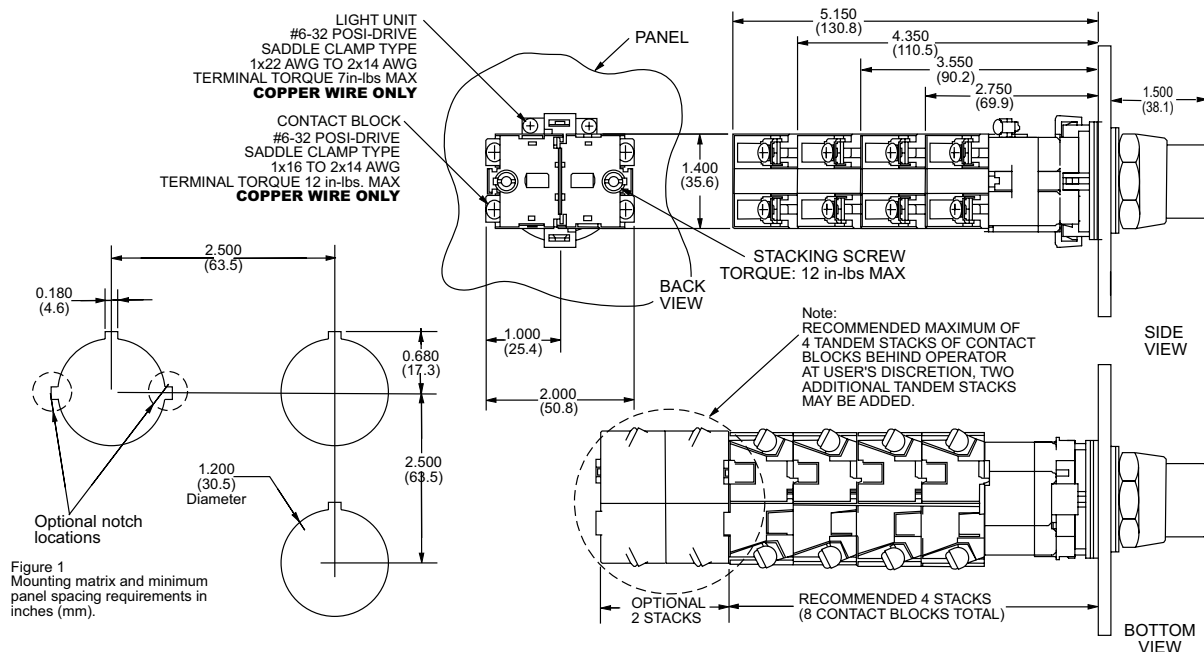
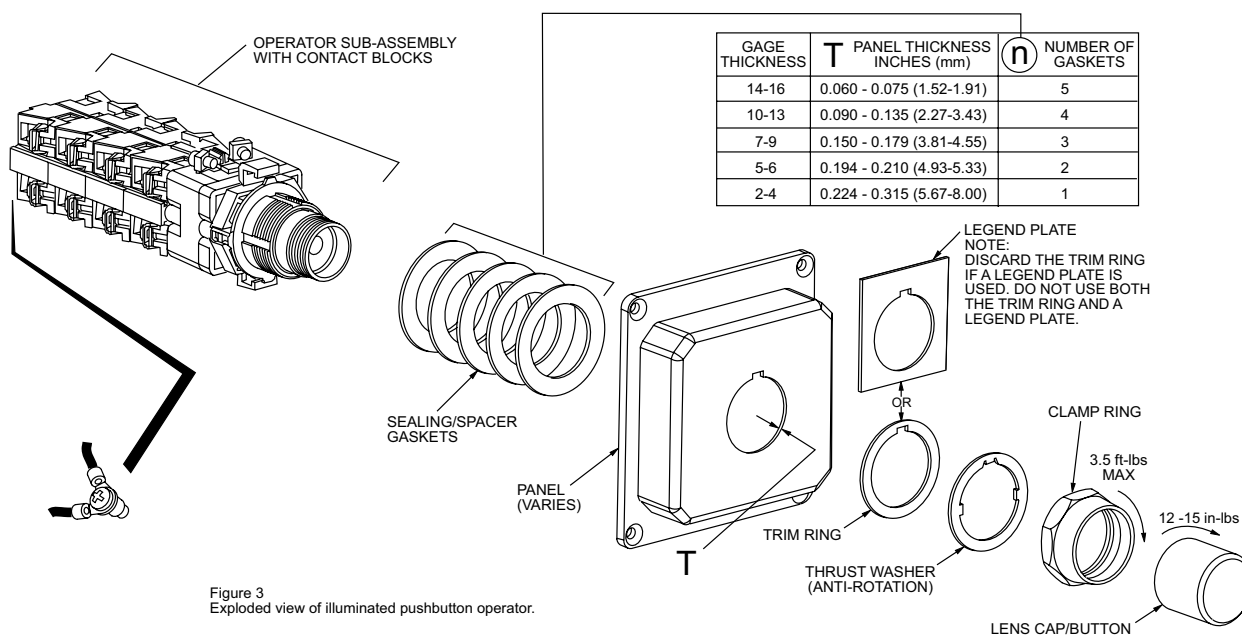


Figure 2
Back, Side and Bottom
views of pushbutton operator
with attached contact blocks.



HT800 30mm Push-to-Test Indicators

**HT8GVRV7****HT8GVGV7****HT8GVAV7****HT8GVCV7****HT8GVVW7****HT8GVYV7****HT8GVBV7**

HT800 30mm Push-to-Test Indicators				
Push-To-Test Indicator	24 Volt AC/DC Incandescent Full Voltage Lamp 50mA @ 24 Volts	Price	120 Volt AC/DC Incandescent Full Voltage Lamp 19mA @ 120 Volts	Price
Red Lens				
PTT indicator assembly	<u>HT8GVRV3</u>	\$125.00	<u>HT8GVRV7</u>	\$125.00
Green Lens				
PTT indicator assembly	<u>HT8GVGV3</u>	\$125.00	<u>HT8GVGV7</u>	\$125.00
Amber Lens				
PTT indicator assembly	<u>HT8GVAV3</u>	\$125.00	<u>HT8GVAV7</u>	\$125.00
Clear Lens				
PTT indicator assembly	—	—	<u>HT8GVCV7</u>	\$125.00
White Lens				
PTT indicator assembly	<u>HT8GVVW3</u>	\$125.00	<u>HT8GVVW7</u>	\$125.00
Yellow Lens				
PTT indicator assembly	<u>HT8GVYV3</u>	\$125.00	<u>HT8GVYV7</u>	\$125.00
Blue Lens				
PTT indicator assembly	<u>HT8GVBV3</u>	\$125.00	<u>HT8GVBV7</u>	\$125.00
Spare Incandescent Lamps For HT8 Series				
Spare lamp	<u>HT8BULBV3</u>	\$14.00	<u>HT8BULBV7</u>	\$14.00

See HT800 accessories in this section.

Notes: A grounding kit is included with each operator or switch assembly.

Part numbers with an * are kitted from individual components at AutomationDirect. The individual components are picked and shipped in the same shipping box. Final assembly of the individual components must be done by the customer. Lens not sold separately.

HT800 30mm Push-to-Test Indicators

30.5 mm Pushbutton Installation and Mounting Instructions - inches (mm)

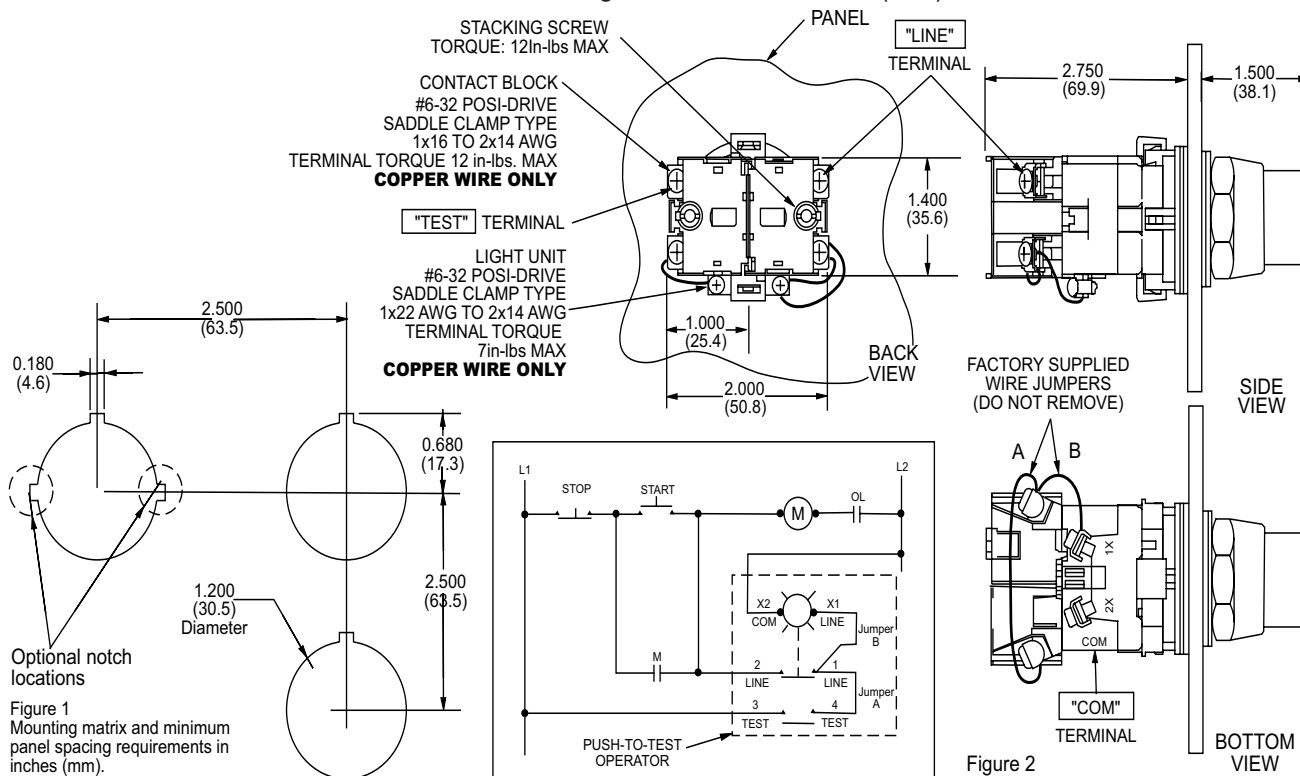
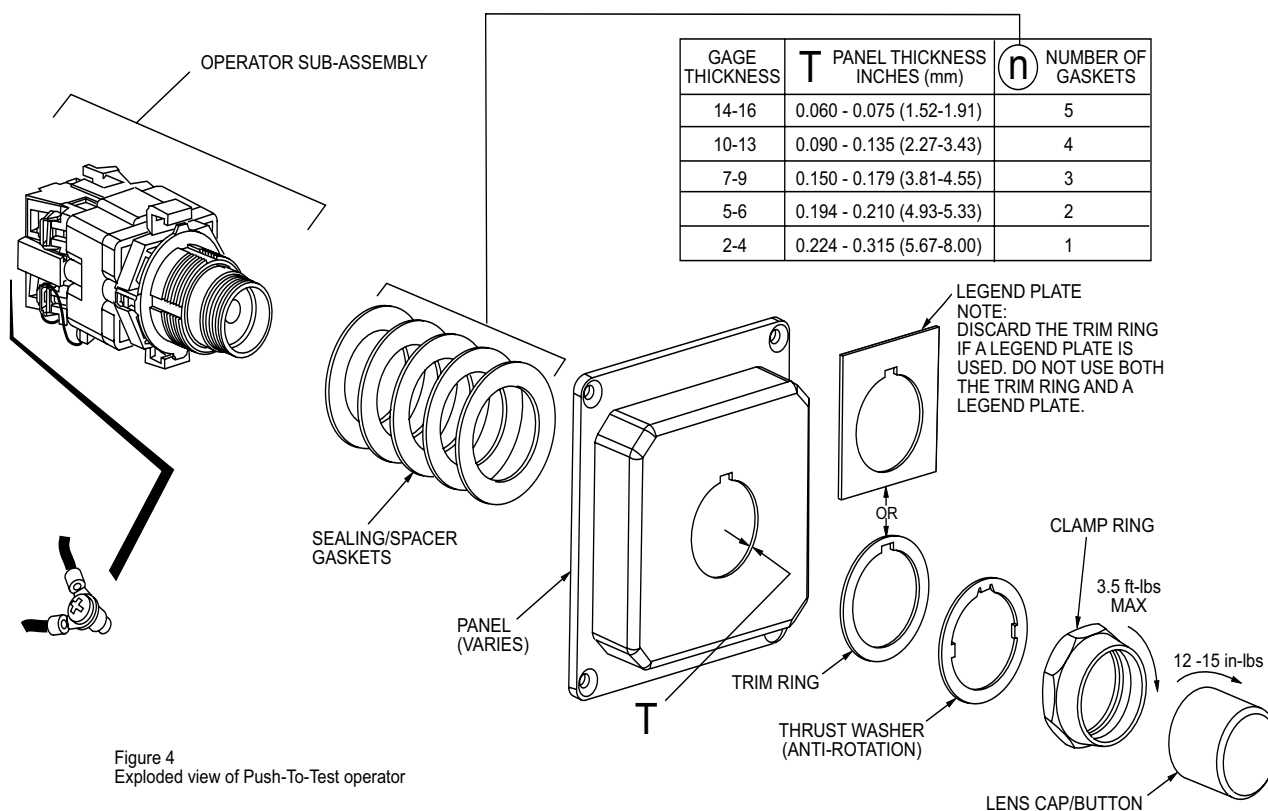


Figure 3 Typical Connection Diagram

Figure 2 Back, Side and Bottom views of Push-To-Test operator



HT800 30mm Incandescent Indicators

**HT8HFRV7****HT8HFGV7****HT8HFAV7****HT8HFCV7****HT8HFWV7****HT8HFYV7****HT8HFBV7**

HT800 30mm Incandescent Indicators				
Incandescent Indicator	24 Volt Incandescent Full Voltage Lamp 50mA @ 24 Volts	Price	120 Volt Incandescent Full Voltage Lamp 19mA @ 120 Volts	Price
Red Lens				
Indicator assembly	<u>HT8HFRV3</u>	\$96.00	<u>HT8HFRV7</u>	\$96.00
Green Lens				
Indicator assembly	<u>HT8HFGV3</u>	\$96.00	<u>HT8HFGV7</u>	\$96.00
Amber Lens				
Indicator assembly	<u>HT8HFAV3</u>	\$96.00	<u>HT8HFAV7</u>	\$96.00
Clear Lens				
Indicator assembly	<u>HT8HFCV3</u>	\$96.00	<u>HT8HFCV7</u>	\$96.00
White Lens				
Indicator assembly	<u>HT8HFWV3</u>	\$96.00	<u>HT8HFWV7</u>	\$96.00
Yellow Lens				
Indicator assembly	<u>HT8HFYV3</u>	\$96.00	<u>HT8HFYV7</u>	\$96.00
Blue Lens				
Indicator assembly	<u>HT8HFBV3</u>	\$96.00	<u>HT8HFBV7</u>	\$96.00
Spare Incandescent Lamps For HT8 Series				
Spare lamp	<u>HT8BULBV3</u>	\$14.00	<u>HT8BULBV7</u>	\$14.00

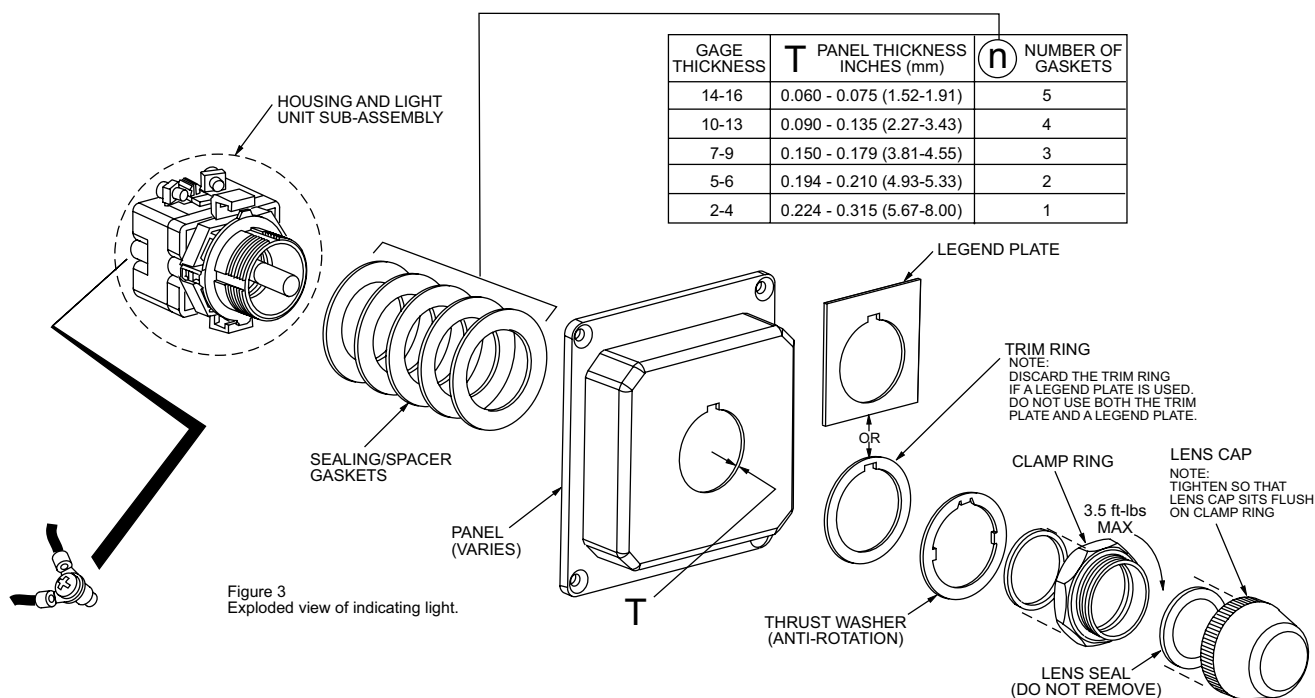
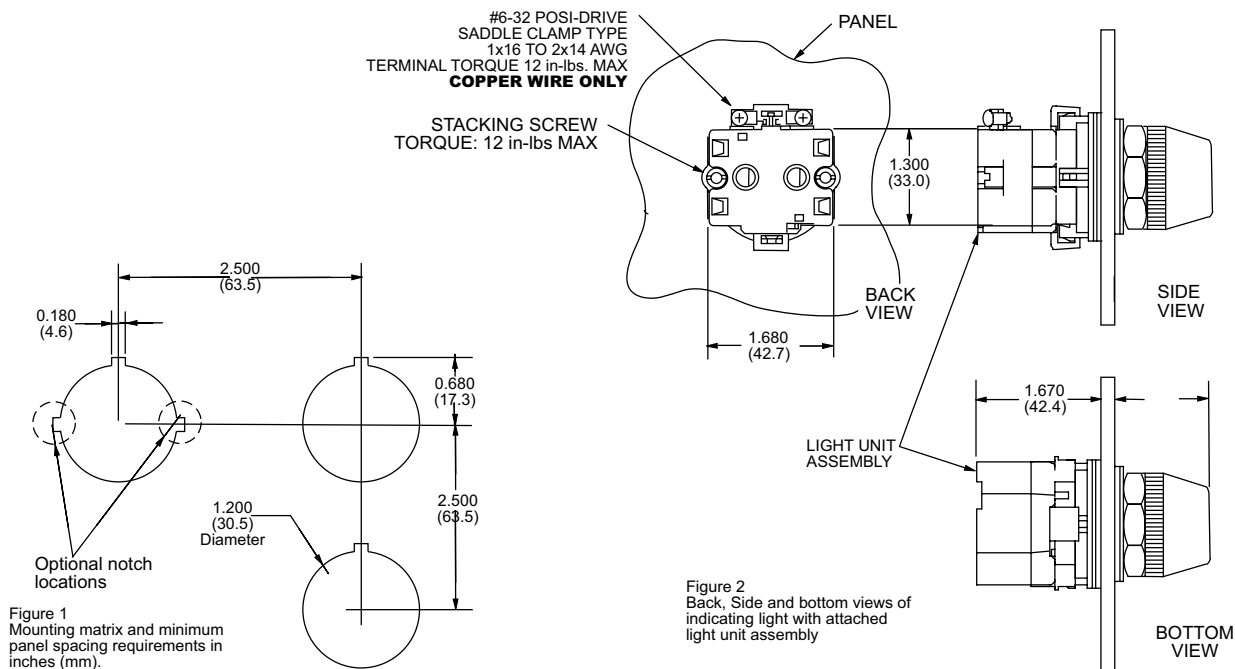
See HT800 accessories in this section.

Notes: A grounding kit is included with each operator or switch assembly.

Part numbers with an * are kitted from individual components at AutomationDirect. The individual components are picked and shipped in the same shipping box. Final assembly of the individual components must be done by the customer. Lens not sold separately.

HT800 30mm Incandescent Indicators

30.5 mm Pushbutton Installation and Mounting Instructions - inches (mm)





Cutler-Hammer

HT800 30mm Guarded Flush Pushbuttons

[HT8GDRV3](#)[HT8GDRV3](#)[HT8GDRV3](#)[HT8GDRV3](#)[HT8GDRV3](#)[HT8GDRV3](#)[HT8GDRV3](#)

HT800 30mm Guarded Flush Pushbuttons								
Contact Configuration	24 Volt AC/DC Incandescent Full Voltage Lamp 50mA @ 24 Volts	Price	120 Volt AC/DC Incandescent Full Voltage Lamp 19mA @ 120 Volts	Price	24 Volt LED Full Voltage Lamp	Price	120 Volt LED Full Voltage Lamp	Price
Red Lens								
Operator only	HT8GDRV3	\$105.00	HT8GDRV7	\$105.00	HT8GDRF3	\$123.00	HT8GDRF7	\$123.00
1 N.O.	*HT8GDRAV3	\$112.00	*HT8GDRAV7	\$112.00	*HT8GDRAF3	\$133.00	*HT8GDRAF7	\$133.00
1 N.C.	*HT8GDRBV3	\$112.00	*HT8GDRBV7	\$112.00	*HT8GDRBF3	\$133.00	*HT8GDRBF7	\$133.00
Green Lens								
Operator only	HT8GDGV3	\$105.00	HT8GDGV7	\$105.00	HT8GDGF3	\$123.00	HT8GDGF7	\$123.00
1 N.O.	*HT8GDGAV3	\$112.00	*HT8GDGAV7	\$112.00	*HT8GDGAF3	\$133.00	*HT8GDGAF7	\$133.00
1 N.C.	*HT8GDGBV3	\$112.00	*HT8GDGBV7	\$112.00	*HT8GDGBF3	\$133.00	*HT8GDGBF7	\$133.00
Amber Lens								
Operator only	HT8GDAV3	\$105.00	HT8GDAV7	\$105.00	HT8GDAF3	\$123.00	HT8GDAF7	\$123.00
1 N.O.	*HT8GDAAV3	\$112.00	*HT8GDAAV7	\$112.00	*HT8GDAAF3	\$133.00	*HT8GDAAF7	\$133.00
1 N.C.	*HT8GDABV3	\$112.00	*HT8GDABV7	\$112.00	*HT8GDABF3	\$133.00	*HT8GDABF7	\$133.00
Clear Lens								
Operator only	HT8GDCV3	\$105.00	HT8GDCV7	\$105.00	HT8GDCF3	\$123.00	HT8GDCF7	\$123.00
1 N.O.	*HT8GDCAV3	\$112.00	*HT8GDCAV7	\$112.00	*HT8GDCAF3	\$133.00	*HT8GDCAF7	\$133.00
1 N.C.	*HT8GDCBV3	\$112.00	*HT8GDCBV7	\$112.00	*HT8GDCBF3	\$133.00	*HT8GDCBF7	\$133.00
White Lens								
Operator only	HT8GDWV3	\$105.00	HT8GDWV7	\$105.00	HT8GDWF3	\$123.00	HT8GDWF7	\$123.00
1 N.O.	*HT8GDWAV3	\$112.00	*HT8GDWAV7	\$112.00	*HT8GDWAF3	\$133.00	*HT8GDWAF7	\$133.00
1 N.C.	*HT8GDWBV3	\$112.00	*HT8GDWBV7	\$112.00	*HT8GDWBF3	\$133.00	*HT8GDWBF7	\$133.00
Yellow Lens								
Operator only	HT8GDYV3	\$105.00	HT8GDYV7	\$105.00	HT8GDYF3	\$123.00	HT8GDYF7	\$123.00
1 N.O.	*HT8GDYAV3	\$112.00	*HT8GDYAV7	\$112.00	*HT8GDYAF3	\$133.00	*HT8GDYAF7	\$133.00
1 N.C.	*HT8GDYBV3	\$112.00	*HT8GDYBV7	\$112.00	*HT8GDYBF3	\$133.00	*HT8GDYBF7	\$133.00
Blue Lens								
Operator only	HT8GDBV3	\$105.00	HT8GDBV7	\$105.00	HT8GDBF3	\$123.00	HT8GDBF7	\$123.00
1 N.O.	*HT8GDBAV3	\$112.00	*HT8GDBAV7	\$112.00	*HT8GDBAF3	\$133.00	*HT8GDBAF7	\$133.00
1 N.C.	*HT8GDBBV3	\$112.00	*HT8GDBBV7	\$112.00	*HT8GDBBF3	\$133.00	*HT8GDBBF7	\$133.00
Spare Incandescent and LED Lamps For HT8 Series - starting Prices								
	HT8BULBV3	\$14.00	HT8BULBV7	\$14.00	HT8LED**F3	\$39.00	HT8LED**F7	\$39.00
30mm Guard for Illuminated Pushbuttons								
HT8A15								\$16.50

See HT800 accessories in this section.

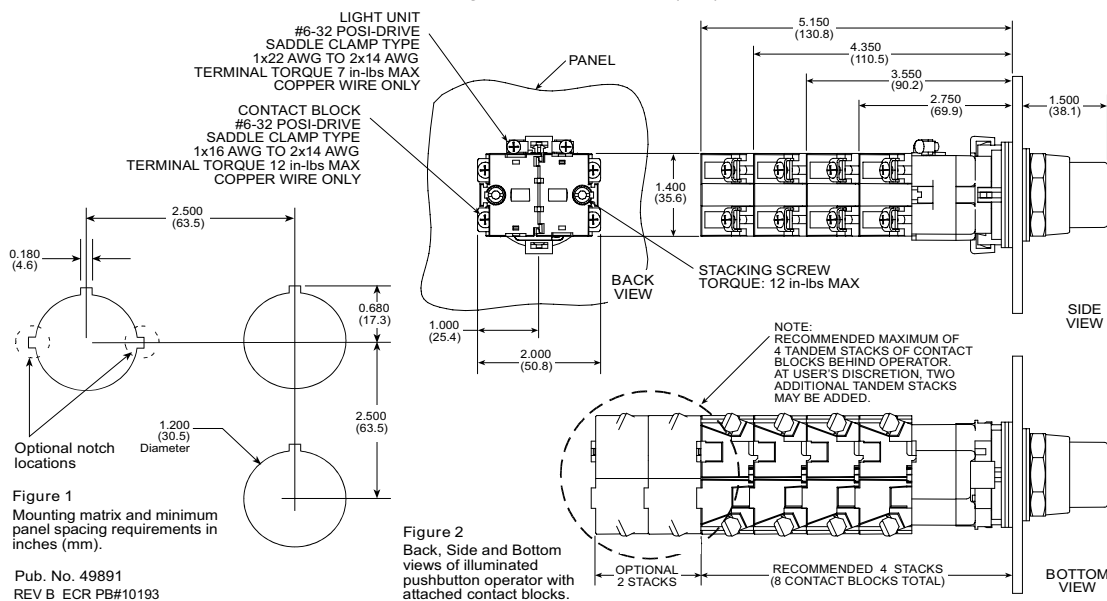
Notes: A grounding kit is included with each operator or switch assembly.

* Part numbers with an * are kitted from individual components at AutomationDirect. The individual components are picked and shipped in the same shipping box. Final assembly of the individual components must be done by the customer. Lens not sold separately.

**Insert letter of color bulb needed; for example, HT8LEDYF3 is the part number for a yellow 24 volt LED replacement bulb. See the accessories page at the end of this section for the complete listing of LED replacement bulbs.

HT800 30mm Guarded Flush Pushbuttons

30.5 mm Pushbutton Installation and Mounting Instructions - inches (mm)



GAGE THICKNESS	T PANEL THICKNESS INCHES (mm)	n NUMBER OF GASKETS
14-16	0.060 - 0.075 (1.52-1.91)	5
10-13	0.090 - 0.135 (2.27 - 3.43)	4
7-9	0.150 - 0.179 (3.81 - 4.55)	3
5-6	0.194 - 0.210 (4.93 - 5.33)	2
2-4	0.224 - 0.315 (5.67 - 8.00)	1

LEGEND PLATE

NOTE:
DISCARD THE TRIM RING IF A LEGEND PLATE IS USED. DO NOT USE BOTH THE TRIM RING AND A LEGEND PLATE.

ILLUMINATED PUSHBUTTON GUARD (CAT. NO. HT8A15)

NOTE:
INSTALL LENS CAP PRIOR TO GUARD

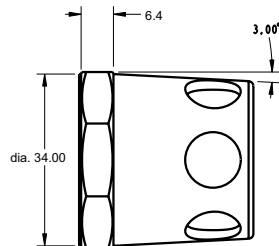
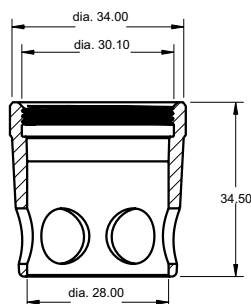
CLAMP RING

LENS CAP/ BUTTON

3.5 ft-lbs MAX

12-15 in-lbs.

Guard dimensions



Dimensions in millimeters



Cutler-Hammer

HT800 30mm Contact Blocks & Accessories

Contact blocks

**HT8A****HT8B**

HT8 Series Contact Blocks		
Part Number	Description	Price
HT8A	Normally open contact block for HT8 series switches. NEMA Rated A600, P6001	\$16.50
HT8B	Normally closed contact block for HT8 series switches. NEMA Rated A600, P6001	\$16.50
HT8C	Early closing normally open contact block for HT8 series switches. NEMA Rated A6001	\$40.00
HT8D	Late opening normally closed contact block for HT8 series switches. NEMA Rated A6001	\$16.50
HT8E	Logic level normally open contact block for HT8 series switches. Gold plated contacts for reliable low energy switching. Power Rating: Min 1mA @ 5V; Max 500mA 28V.	\$33.00

Notes

1. See HT800 specifications in this section for typical contact wiring diagram.
2. NEMA ICS 5-2000. For more information, refer to HT800 technical specifications and control circuit contact electrical ratings at the beginning of this section.

Spare parts and tools

**HT8WRENCH****HT8LAMPTOOL****109305****HT8BULBV3****HT8LEDYF3**

HT8 Series Spare Parts and Tools		
Part Number	Description	Price
HT8WRENCH	Installation wrench for Cutler-Hammer HT8 series and E22 series pushbuttons, switches, and indicators	\$19.00
HT8LAMPTOOL	Bulb extraction tool for removing bulbs from switches, indicators and stacklights	\$10.00
109305	Knockout punch hole cutting tool for 30.5 mm mounting hole. Includes punch, die and draw stud	\$34.50
HT8X1	Spare anti-rotation ring for HT8 series. Included with each HT8 device. (not shown)	\$3.25
HT8X2	Spare trim ring for HT8 series. Included with each HT8 device. (not shown)	\$3.25
HT8X3	Spare sealing/spacing ring for HT8 series. Included with each HT8 device. (not shown)	\$3.25
HT8GR1	Spare grounding kit for HT8 series devices except non-PTT indicators. Included with each HT8 device. (not shown)	\$3.25
HT8GR2	Spare grounding kit for HT8 series non-PTT indicators. Included with each HT8 device. (not shown)	\$3.25
HT8BULBV3	24 volt incandescent bulb for HT8 illuminated devices. This is an extended bulb for enhanced illumination with HT8 devices. 50mA at 24 volts.	\$14.00
HT8BULBV7	120 volt incandescent bulb for HT8 illuminated devices. This is an extended bulb for enhanced illumination with HT8 devices. 19mA at 120 volts.	\$14.00
HT8LEDRF3	24 volt replacement LED bulb for HT800 30mm pushbuttons. Color: Red	\$38.50
HT8LEDYF3	24 volt replacement LED bulb for HT800 30mm pushbuttons. Color: Yellow	\$38.50
HT8LEDGF3	24 volt replacement LED bulb for HT800 30mm pushbuttons. Color: Green	\$40.00
HT8LEDBF3	24 volt replacement LED bulb for HT800 30mm pushbuttons. Color: Blue	\$44.00
HT8LEDWF3	24 volt replacement LED bulb for HT800 30mm pushbuttons. Color: White	\$48.50
HT8LEDAF3	24 volt replacement LED bulb for HT800 30mm pushbuttons. Color: Amber	\$39.00
HT8LEDRF7	120 volt replacement LED bulb for HT800 30mm pushbuttons. Color: Red	\$38.50
HT8LEDYF7	120 volt replacement LED bulb for HT800 30mm pushbuttons. Color: Yellow	\$38.50
HT8LEDGF7	120 volt replacement LED bulb for HT800 30mm pushbuttons. Color: Green	\$40.00
HT8LEDBF7	120 volt replacement LED bulb for HT800 30mm pushbuttons. Color: Blue	\$44.00
HT8LEDWF7	120 volt replacement LED bulb for HT800 30mm pushbuttons. Color: White	\$48.50
HT8LEDAF7	120 volt replacement LED bulb for HT800 30mm pushbuttons. Color: Amber	\$39.00

NOTE: LED modules have very low current draw and should not be used with triac output devices like PLC triac output modules.

EATON 30mm Legend Plates

Cutler-Hammer



For Pushbutton Operators and Indicating Lights

Legend	Color of Field	Catalog Number	Price
Clamp	Black	HT8SP90	\$7.75
Close	Black	HT8SP73	\$7.75
Down	Black	HT8SP74	\$7.75
Emergency Stop	Red	HT8SP13	\$7.75
Fast	Black	HT8SP75	\$7.75
Faster	Black	HT8SP87	\$7.75
Feeder On	Black	HT8SP94	\$7.75
Feeder Off	Black	HT8SP95	\$7.75
Forward	Black	HT8SP15	\$7.75
High	Black	HT8SP16	\$7.75
In	Black	HT8SP17	\$7.75
Inch	Black	HT8SP18	\$7.75
Jog	Black	HT8SP19	\$7.75
Jog Forward	Black	HT8SP20	\$7.75
Jog Reverse	Black	HT8SP21	\$7.75
Low	Black	HT8SP22	\$7.75
Lower	Black	HT8SP23	\$7.75
Lube-fail	Black	HT8SP92	\$7.75
Motor Run	Black	HT8SP81	\$7.75
Motor Stop	Black	HT8SP82	\$7.75
Off	Red	HT8SP24	\$7.75
On	Black	HT8SP25	\$7.75
Open	Black	HT8SP26	\$7.75
Out	Black	HT8SP27	\$7.75
Power On	Black	HT8SP80	\$7.75
Raise	Black	HT8SP28	\$7.75
Ready	Black	HT8SP86	\$7.75
Reset	Black	HT8SP29	\$7.75
Reverse	Black	HT8SP30	\$7.75
Run	Black	HT8SP31	\$7.75
Safe	Black	HT8SP85	\$7.75
Slow	Black	HT8SP32	\$7.75
Slower	Black	HT8SP88	\$7.75
Start	Black	HT8SP33	\$7.75
Stop	Red	HT8SP34	\$7.75
Test	Black	HT8SP83	\$7.75
Transfer	Black	HT8SP93	\$7.75
Trip	Black	HT8SP84	\$7.75
Unclamp	Black	HT8SP91	\$7.75
Up	Black	HT8SP35	\$7.75

*Note: Dimensions: 1.77" (45mm) x1.77" (45mm)

For Selector Switch Operators/Two-Position

Legend	Color of Field	Catalog Number	Price
Forward Reverse	Black	HT8SP38	\$7.75
Hand Auto	Black	HT8SP39	\$7.75
High Low	Black	HT8SP40	\$7.75
Jog Run	Black	HT8SP41	\$7.75
Manual Auto	Black	HT8SP67	\$7.75
Off On	Black	HT8SP42	\$7.75
Open Close	Black	HT8SP43	\$7.75
Run Jog	Black	HT8SP44	\$7.75
Safe Run	Black	HT8SP45	\$7.75
Start Jog	Black	HT8SP46	\$7.75
Start Stop	Black	HT8SP47	\$7.75
Up Down	Black	HT8SP48	\$7.75

For Selector Switch Operators/Three-Position

Legend	Color of Field	Catalog Number	Price
Auto Off Hand	Black	HT8SP49	\$7.75
For. Off Rev	Black	HT8SP50	\$7.75
For. Safe Rev.	Black	HT8SP69	\$7.75
Hand Off Auto	Black	HT8SP51	\$7.75
Man. Off Auto	Black	HT8SP68	\$7.75
Open Off Close	Black	HT8SP53	\$7.75
Run Safe Jog	Black	HT8SP70	\$7.75
Up Off Down	Black	HT8SP54	\$7.75
On Stop Safe	Black	HT8SP71	\$7.75

For PUSH/PULL Units

Legend 3/32" lettering	Color of Field	Catalog Number	Price
ON/OFF	Black	HT8PP5	\$7.75
OPEN/CLOSE	Black	HT8PP8	\$7.75
UP/DOWN	Black	HT8PP11	\$7.75

Square Blank Plastic Legend Plates

Lettering	Color of Field	Catalog Number	Price
Black	White/Silver	HT8SP76	\$7.75
White	Red/Black	HT8SP77	\$7.75

Round Plastic Legend Plates

Legend	Color of Field	Catalog Number	Price
ESTOP	Yellow	HT8RP79	\$7.75

NOTE: 70 mm / 2-3/4" diameter

NOTE: All 30 mm legend plates are plastic.