

## **NEMA Ruggedness at IEC Prices**

**Cutler-Hammer** 

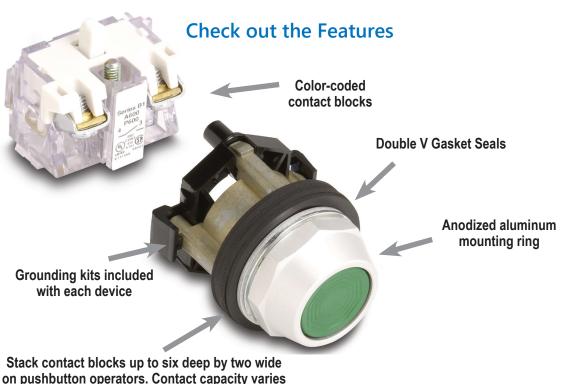
#### **Overview**

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



Illuminated (in seven colors)





Guarded Illuminated (in seven colors)



Push-pull Illuminated



Mushroom

### **30mm Selector Switches**

with operator.



(in knob or lever versions)

### **30mm Indicating Lights**



(in seven colors)

30mm Push-to-Test Indicators



<sup>\*</sup> Cutler-Hammer products are available for sale to North America locations only.



# 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

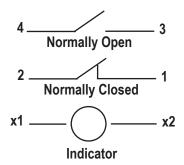
#### **Standards and Certifications**

- 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**



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## 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	$10 \times 10^6$ Operations 6K Ops/Hr with 6 N.O. on left and 6 N.C. on right									
Selector Switches	250 x 10³ Operations 3K Ops/Hr with 2 N.O. on left and 2 N.C. on right									
Push-Pull Operators	250 x 10³ 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	Vo	Its 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	138²	138²	138²	
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



## **FAT-N** HT800 30mm Momentary **Pushbuttons**







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

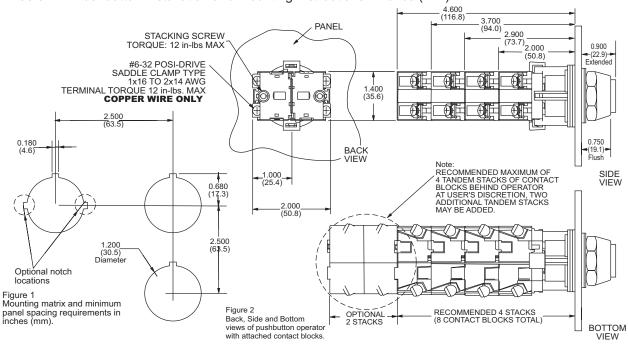
Notes: A grounding kit is included with each operator or switch assembly.

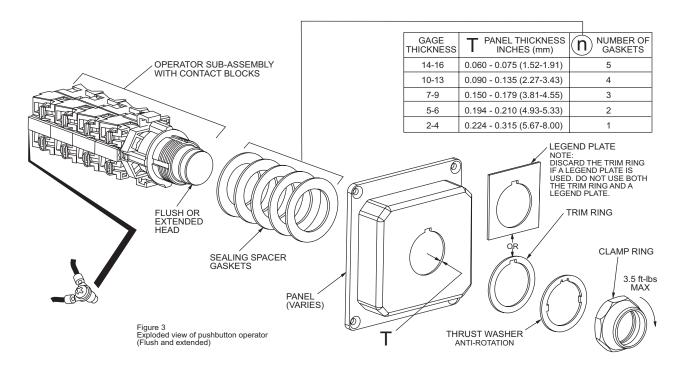
Part numbers with an \* are kitted from individual components at AutomationDirect. The individual components are picked and shipped in the same shipping box. Final assembly of the individual components must be done by the customer.

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## **EAT-N** HT800 30mm Momentary Pushbuttons

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





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## HT800 30mm Two-position Push-pull Button

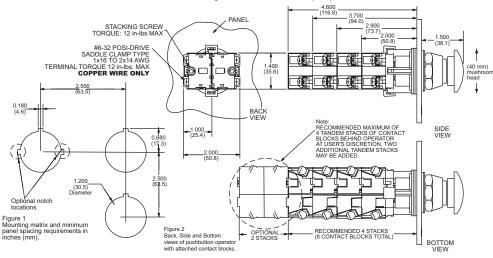


Contact	Operator	Position	Two-position Maintained Push-Pull		
Configuration	Out	In	Color	Part Number	Price
Operator Only			Red	HT8CBR	\$96.00
1 N.C.	Х	0	Red	*HT8CBRB	\$112.00
1 N.O. and 1 N.C.	"O X"	" X O"	Red	*HT8CBRAB	\$125.00

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

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



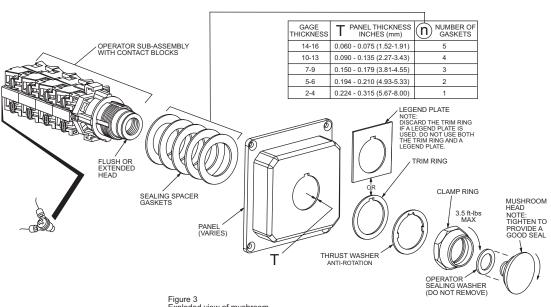


Figure 3 Exploded view of mushroom head operator

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## 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	HT8FBRV3	\$166.00	HT8FBRV7	\$166.00	HT8FBRF3	\$182.00	HT8FBRF7	\$182.00
1 N.O.	*HT8FBRAV3	\$159.00	*HT8FBRAV7	\$159.00	*HT8FBRAF3	\$175.00	*HT8FBRAF7	\$175.00
1 N.C.	*HT8FBRBV3	\$159.00	*HT8FBRBV7	\$159.00	*HT8FBRBF3	\$175.00	*HT8FBRBF7	\$175.00
Green Lens								
Operator only	HT8FBGV3	\$166.00	HT8FBGV7	\$166.00	HT8FBGF3	\$182.00	HT8FBGF7	\$182.00
1 N.O.	*HT8FBGAV3	\$159.00	*HT8FBGAV7	\$159.00	*HT8FBGAF3	\$175.00	*HT8FBGAF7	\$175.00
1 N.C.	* <u>HT8FBGBV3</u>	\$159.00	* <u>HT8FBGBV7</u>	\$159.00	*HT8FBGBF3	\$175.00	*HT8FBGBF7	\$175.00



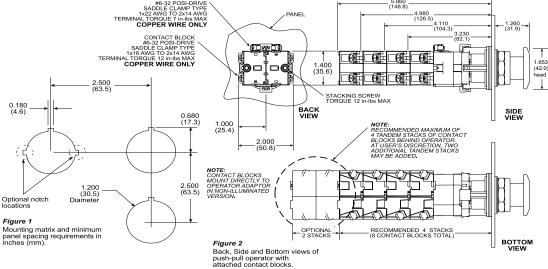
HT8FBRV3

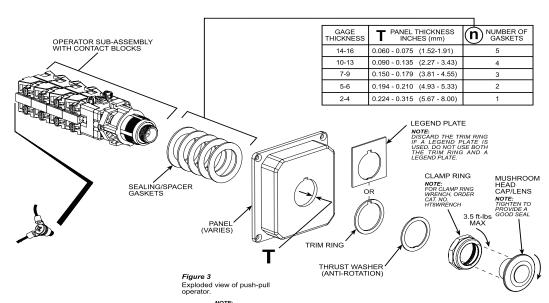


HT8FBGF3

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)





FOR EASY BULB REMOVAL FROM FRONT OF PANEL USE BULB REMOVAL TOOL CATNO. HT8LAMPTOOL

## FAT•N

### **HT800 30mm Selector Switches**

**Cutler-Hammer** 



HT8JAH3A knob version

Two-position Selector Switches								
Operator Type Contact Type		Standard Black Know	b Operator	Standard Black Lever Operator				
S=Spring Return	S=Spring Return	Part Number	Price	Part Number	Price			
No	ММ	HT8JAH3A	\$39.00	HT8JDH3A	\$39.00			
Contacts	M <s< th=""><th>HT8JNH3A</th><th>\$62.00</th><th>HT8JPH3A</th><th>\$62.00</th></s<>	HT8JNH3A	\$62.00	HT8JPH3A	\$62.00			
1 N.O.	ММ	* <u>HT8JAH3AA5</u>	\$56.00	* <u>HT8JDH3AA5</u>	\$56.00			
1 N.O.	M <s< th=""><th>*<u>HT8JNH3AA5</u></th><th>\$79.00</th><th>*<u>HT8JPH3AA5</u></th><th>\$79.00</th></s<>	* <u>HT8JNH3AA5</u>	\$79.00	* <u>HT8JPH3AA5</u>	\$79.00			



**HT8JDH3A** lever version

Switch Part Numbers	Contac	ct Blocks	Cam C	ode 3A	
			Switch Position		
HT8JAH3A, HT8JNH3A, HT8JAH3AA5, HT8JNH3AA5, HT8JDH3A, HT8JDH3AA5, HT8JPH3AA5 (Contact block configuration varies with part number)	Left	Right			
	N.O.		Х	0	
Two-position Selector Switch	N.C.		0	X	
Two-position Selector Switch		N.O.	0	X	
		N.C.	X	0	
Note: AutomationDirect only offers cam code 3A for two pos	lote: 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.





HT8JBH1D knob version

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



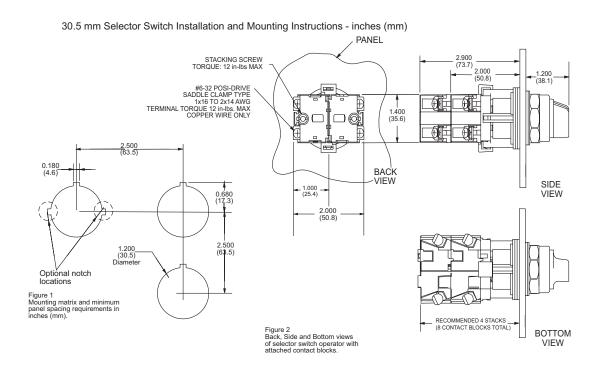
**HT8JEH1D** lever version

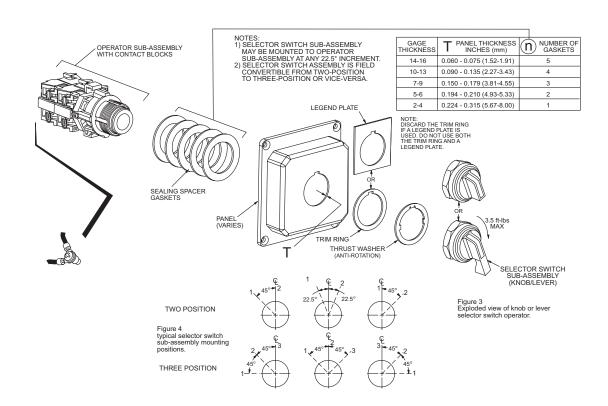
Switch Part Numbers	Contact Blocks		Cam Code 1D			
HT8JBH1D, HT8JUH1D, HT8JXH1D, HT8JBH1DAA5, HT8JUH1DAA5, HT8JXH1DAA5,		Switch Position				
HT8JEH1D, HT8JVH1D, HT8JYH1D, HT8JEH1DAA5, HT8JVH1DAA5, HT8JYH1DAA5 (Contact block configuration varies with part number)	Left	Right				
	N.O.		X	0	0	
	N.C.		0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

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





www.automationdirect.com Pilot Devices †PIL-123



## HT800 30mm Extended **Illuminated Pushbuttons**





HT8GBGV7



HT8GBAV7



HT8GBCV7

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	HT8GBRV3	\$96.00	HT8GBRV7	\$96.00			
1 N.O.	*HT8GBRAV3	\$112.00	*HT8GBRAV7	\$112.00			
1 N.C.	*HT8GBRBV3	\$112.00	*HT8GBRBV7	\$112.00			
Green Lens							
Operator only	HT8GBGV3	\$96.00	HT8GBGV7	\$96.00			
1 N.O.	*HT8GBGAV3	\$112.00	*HT8GBGAV7	\$112.00			
1 N.C.	*HT8GBGBV3	\$112.00	*HT8GBGBV7	\$112.00			
Amber Lens							
Operator only	HT8GBAV3	\$96.00	HT8GBAV7	\$96.00			
1 N.O.	*HT8GBAAV3	\$112.00	*HT8GBAAV7	\$112.00			
1 N.C.	*HT8GBABV3	\$112.00	*HT8GBABV7	\$112.00			
Clear Lens	<u>'</u>						
Operator only	HT8GBCV3	\$96.00	HT8GBCV7	\$96.00			
1 N.O.	*HT8GBCAV3	\$112.00	*HT8GBCAV7	\$112.00			
1 N.C.	*HT8GBCBV3	\$112.00	*HT8GBCBV7	\$112.00			
White Lens							
Operator only	HT8GBWV3	\$96.00	HT8GBWV7	\$96.00			
1 N.O.	*HT8GBWAV3	\$112.00	*HT8GBWAV7	\$112.00			
1 N.C.	*HT8GBWBV3	\$112.00	*HT8GBWBV7	\$112.00			
Yellow Lens							
Operator only	HT8GBYV3	\$96.00	HT8GBYV7	\$96.00			
1 N.O.	*HT8GBYAV3	\$112.00	*HT8GBYAV7	\$112.00			
1 N.C.	*HT8GBYBV3	\$112.00	*HT8GBYBV7	\$112.00			
Blue Lens							
Operator only	HT8GBBV3	\$96.00	HT8GBBV7	\$96.00			
1 N.O.	*HT8GBBAV3	\$112.00	*HT8GBBAV7	\$112.00			
1 N.C.	*HT8GBBBV3	\$112.00	*HT8GBBBV7	\$112.00			
	Spare Incandescent	Lamps Fo	r HT8 Series				
Spare lamp	HT8BULBV3	\$14.00	HT8BULBV7	\$14.00			

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. Lens not sold separately.









## HT800 30mm Extended Illuminated Pushbuttons

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

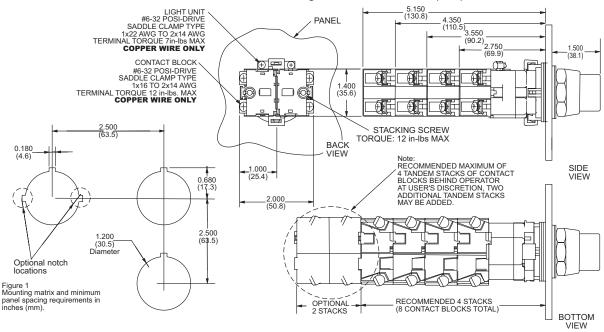
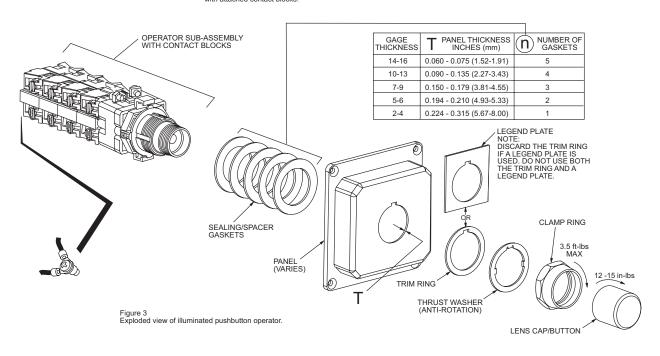


Figure 2 Back, Side and Bottom views of pushbutton operator with attached contact blocks.



www.automationdirect.com Pilot Devices tPIL-125

### HT800 30mm Push-to-Test Indicators



HT8GVRV7

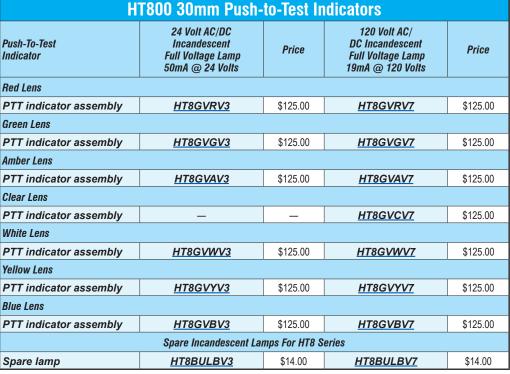


HT8GVGV7



HT8GVAV7





See HT800 accessories in this section.

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HT8GVWV7



HT8GVYV7



HT8GVBV7

## FIT-N HT800 30mm Push-to-Test Indicators

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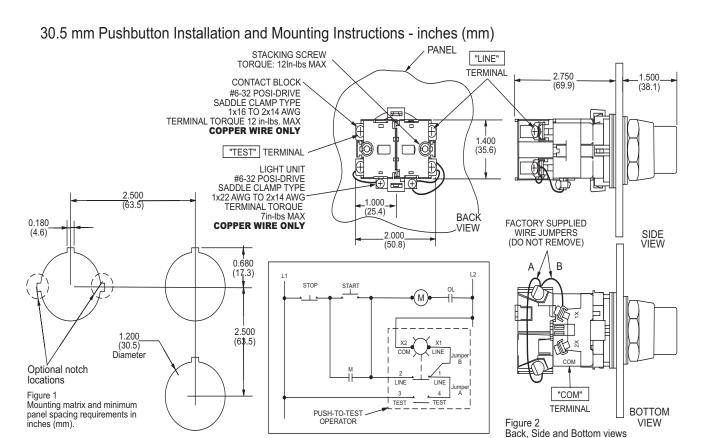
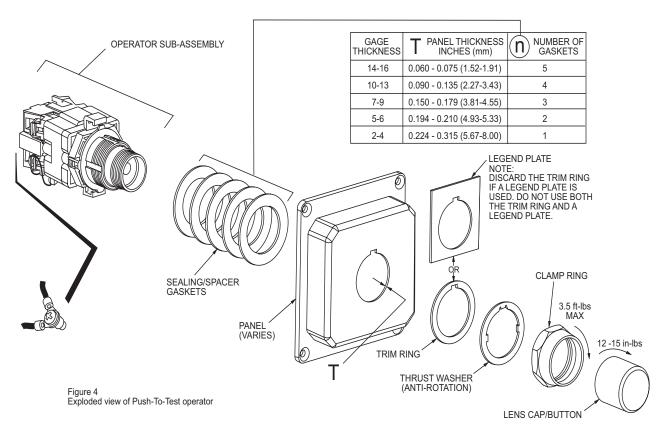


Figure 3 Typical Connection Diagram



of Push-To-Test operator

## FIT-N HT800 30mm Incandescent Indicators

**Cutler-Hammer** 



HT8HFRV7



HT8HFGV7



HT8HFAV7

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	Red Lens											
Indicator assembly	HT8HFRV3	\$96.00	HT8HFRV7	\$96.00								
Green Lens	Green Lens											
Indicator assembly	HT8HFGV3	\$96.00	HT8HFGV7	\$96.00								
Amber Lens												
Indicator assembly	HT8HFAV3	\$96.00	HT8HFAV7	\$96.00								
Clear Lens												
Indicator assembly	HT8HFCV3	\$96.00	HT8HFCV7	\$96.00								
White Lens												
Indicator assembly	HT8HFWV3	\$96.00	HT8HFWV7	\$96.00								
Yellow Lens												
Indicator assembly	HT8HFYV3	\$96.00	HT8HFYV7	\$96.00								
Blue Lens												
Indicator assembly	HT8HFBV3	\$96.00	HT8HFBV7	\$96.00								
	Spare Incandescent I	Lamps For HT8	S Series									
Spare lamp	HT8BULBV3	\$14.00	HT8BULBV7	\$14.00								

See HT800 accessories in this section.

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

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HT8HFCV7



HT8HFWV7



HT8HFYV7

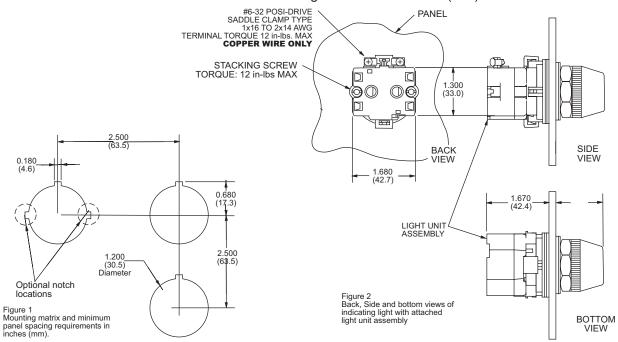


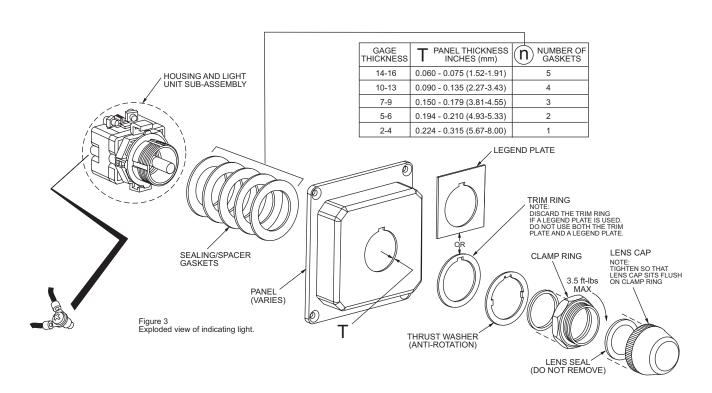
HT8HFBV7

## HT800 30mm Incandescent Indicators

**Cutler-Hammer** 

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







## FAT·N HT800 30mm Guarded Flush **Pushbuttons**



HT8GDRV3



HT8GDGV3



HT8GDAV3



HT8GDCV3



HT8GDWV3



HT8GDYV3



HT8GDBV3

	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.	* <u>HT8GDRBV3</u>	\$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	* <u>HT8GDBBV7</u>	\$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								
<u>HT8A15</u>					\$16.50			
See HT800 accessories in this section.								

See HT800 accessories in this section.

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

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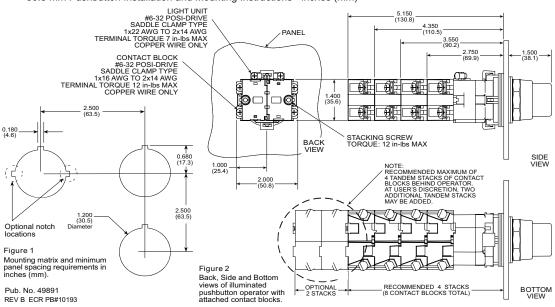
<sup>\*</sup> Part numbers with an \* are kitted from individual components at AutomationDirect. The individual components are picked and shipped in

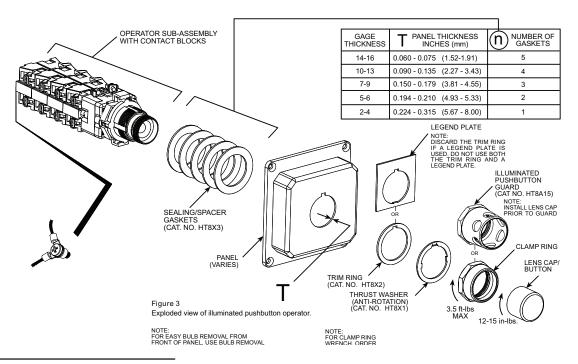
the same shipping box. Final assembly of the individual components must be done by the customer. Lens not sold separately.
\*\*Insert letter of color bulb needed; for example, HT8LEDYF3 is the part number for a yellow 24 volt LED replacement bulb. See the accessories page at the end of this section for the complete listing of LED replacement bulbs.

## Cutler-Hammer

## HT800 30mm Guarded Flush Pushbuttons

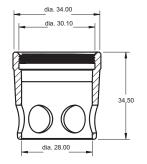
30.5 mm Pushbutton Installation and Mounting Instructions - inches (mm)

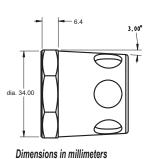




### **Guard dimensions**







### FAT•N **Cutler-Hammer**

## HT800 30mm Contact Blocks & **Accessories**

#### **Contact blocks**





HT8A

HT8 Series Contact Blocks					
Part Number	Description	Price			
HT8A	Normally open contact block for HT8 series switches. NEMA Rated A600, P6001	\$16.50			
<u>HT8B</u>	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			
<u>HT8E</u>	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			

- See HT800 specifications in this section for typical contact wiring diagram.
   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







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				
<u>109305</u>	Knockout punch hole cutting tool for 30.5 mm mounting hole. Includes punch, die and draw stud	\$34.50				
<u>HT8X1</u>	Spare anti-rotation ring for HT8 series. Included with each HT8 device. (not shown)	\$3.25				
<u>HT8X2</u>	Spare trim ring for HT8 series. Included with each HT8 device. (not shown)	\$3.25				
<u>HT8X3</u>	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.

## **FAT·N** 30mm Legend Plates

**Cutler-Hammer** 

For Push			rs and
<u>In</u>	dicating		
Legend	Color of Field	Catalog Number	Price
Clamp	Black	<u>HT8SP90</u>	\$7.75
Close	Black	<u>HT8SP73</u>	\$7.75
Down	Black	<u>HT8SP74</u>	\$7.75
Emergency Stop	Red	HT8SP13	\$7.75
Fast	Black	<u>HT8SP75</u>	\$7.75
Faster	Black	<u>HT8SP87</u>	\$7.75
Feeder On	Black	HT8SP94	\$7.75
Feeder Off	Black	<u>HT8SP95</u>	\$7.75
Forward	Black	HT8SP15	\$7.75
High	Black	<u>HT8SP16</u>	\$7.75
In	Black	<u>HT8SP17</u>	\$7.75
Inch	Black	HT8SP18	\$7.75
Jog	Black	<u>HT8SP19</u>	\$7.75
Jog Forward	Black	HT8SP20	\$7.75
Jog Reverse	Black	HT8SP21	\$7.75
Low	Black	<u>HT8SP22</u>	\$7.75
Lower	Black	<u>HT8SP23</u>	\$7.75
Lube-fail	Black	HT8SP92	\$7.75
Motor Run	Black	<u>HT8SP81</u>	\$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	<u>HT8SP88</u>	\$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	<u>HT8SP49</u>	\$7.75		
For. Off Rev	Black	<u>HT8SP50</u>	\$7.75		
For. Safe Rev.	Black	HT8SP69	\$7.75		
Hand Off Auto	Black	HT8SP51	\$7.75		
Man. Off Auto	Black	<u>HT8SP68</u>	\$7.75		
Open Off Close	Black	<u>HT8SP53</u>	\$7.75		
Run Safe Jog	Black	<u>HT8SP70</u>	\$7.75		
Up Off Down	Black	HT8SP54	\$7.75		
On Stop Safe	Black	HT8SP71	\$7.75		

For PUSH/PULL Units					
Legend 3/32" Color of Field 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.

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