

# E22 Series Cross-reference Tables

Pushbutton, Indicator Light, and Selector Switch Cross Reference				
Cutler-Hammer	Allen-Bradley	Telemecanique XB2B (chrome bezel) XA2B (black bezel)	GE C-2000	Siemens
<b>Non-Illuminated Pushbuttons</b>				
E22PB1A	800EPF2 800E3LX10	ZA2BA2 ZA2BZ101	P9XPNNNG10N0	3SB1000-0AB01 3SB02-CBH 3SB1400-0B
E22PB3A	800EPF3 800E3LX10	ZA2BA3 ZA2BZ101	P9XPNVG10N0	3SB1000-0AE01 3SB02-CBH 3SB1400-0B
E22EB2B	800EPE4 800E3LX01	ZA2BL4 ZA2BZ102	P9XPNRS20N0	3SB1000-0LC01 3SB02-CBH 3SB1400-0B
E22ASB204	ENCLSR: 800E-2P 800EP-F3 800E-2LX10 800EP-E4 800E-2LX01 800E-34BE208 800E-34R212	XALB211 Both flush - stop is not extended	P9CPNRSN20N0 P9CPNVGN10N0 P9EPB02 P9AEPN201 P9AEPN202	3SB02-S21
<b>Illuminated Pushbuttons</b>				
E22TB2X4B	800EPL4 800E3DL3 800E3X01	ZA2BW14 ZA2BW06224	P9XPLRSDN12NADI	3SB1001-0LC01 3SB02-CBH 3SB1400-0C 3SB1400-2H
E22TB3X4A	800EPL3 800E3DL3 800E3X10	ZA2B213 AZ2B206124	P9XPLVSDN12NADI	3SB1001-0LE01 3SB02-CBH 3SB1400-0B 3SB1440-2H
E22TB9X4A	800EPL5 800E3DL3 800E3X10	ZA2BW15 ZA2BW06124	P9XPLASDN12NADI	3SB1001-0LD01 3SB02-CBH 3SB1400-0B 3SB1400-2H
E22TB2X10B	800EPL4 800E2RL5 800E3X01	ZA2BW14 ZA2BW062120	P9XPLRSB P9PRNVJ P9PDNVD	3SB1001-0LC01 3SB02-CBH 3SB1400-0C
E22TB3X10A	800EPL3 800E2RL5 800E3X10	ZA2BW13 ZA2BW061120	P9XPLVSD P9PRNVJ P9PDNVD	3SB02-UPR1P 3SB1910-0DE 3SB1400-0B
E22TB9X10A	800DPLE5 800E2RL5 800E3X10	ZA2BW15 ZA2B2061120	P9XPLASD P9PRNVJ P9PDNVD	3SB02-UPR1P 3SB1910-0DD 3SB1400-0B



Company Information

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# E22 Series Cross-reference Tables

Pushbutton, Indicator Light, and Selector Switch Cross Reference (cont'd)				
Cutler-Hammer	Allen-Bradley	Telemecanique XB2B (chrome bezel) XA2B (black bezel)	GE C-2000	Siemens
<b>Non-Illuminated Mushroom Pushbuttons</b>				
E22LB2B	800EPM4 800E3LX01	ZA2BC4 ZA2BZ102	P9XEM4RNN20NO	3SB1000-1RC01 3SB02-CBH 3SB1400-0C
E22LLB2B	800EPMT4 800E3LX01	ZA2BS54 ZA2BZ102	P9XER4RAN20NO	3SB1000-1AC01 3SB02-CBH 3SB1400-0C
E22JPB2B	800EPMJ4 800E3LX01	ZA2BR4 ZA2BZ102	P9XEMGRN (60mm) P9B01VN	3SB1000-1VC01 (70MM) 3SB1400-0C
E22JLB2N8B	800EPMJP28 800E3LX01	NO EQUAL	NO EQUAL	NO EQUAL
E22JPLB2B	800EPMJP24 800E3LX01	ZA2BX4 ZA2BZ102	P9XET4RN1200	3SB1000-0KC01 (40mm) 3SB1400-0C
E22ASB106	800EP-MT4 800E-2LX01 800E-1P 800E-15YE112	XALJ174 No Nameplate +Yellow Cover	P9XER4RAN20NO P9EPB01 P9AEPNEN	3SB02-S13 No Nameplate + Yellow Cover
<b>Indicating Lights</b>				
<i>Use ZA2 or ZB2 for these indicating lights</i>				
E22HV2X4	800EPPL4 800E3DL3	ZA2BV04 ZA2BV624	P9XURRD0 BA9S24	N/A
E22HV3X4	800EPPL3 800E3DL3	ZA2BV03 ZA2BV624	P9XUGRD0 BA9S24	N/A
E22HV9X4	800EPPL5 800E3DL3	ZA2BV05 ZA2BV624	P9XUARD0 BA9S24	N/A
E22HV2X8	800EPPL4 800E3DL5	ZA2BV04 ZA2BV6120	B9XURRD0 BA9S130	N/A
E22HV3X8	800EPPL3 800E3DL5	ZA2BV03 ZA2BV6120	B9XUGRD0 BA9S130	N/A
E22HV9X8	800EPPL5 800E3DL5	ZA2BV05 ZA2BV6120	B9XUARD0 BA9S130	N/A
E22HL2X4	800EPPL4 800E3DL3R	ZA2BV043 ZA2BV624 DL1CJUS0244	B9XURRD0 080BA9S24LR	N/A
E22HL3X4	800EPPL3 800E3DL3G	ZA2BV033 ZA2BV624 DL1CJUS0243	B9XUGRD0 080BA9S24LG	N/A
E22HL9X4	800EPPL5 800E3DL3A	ZA2BV053 ZA2BV624 DL1CJUS0245	B9XUARD0 080BA9S24LA	N/A
E22HL2X8	800EPPL4 800E3DL5R	ZA2BV043 ZA2BV620 DL1CJUS1204	B9XURRD0 080BA9S120LR	N/A
E22HL3X8	800EPPL3 800E3DL5G	ZA2BV033 ZA2BV6120 DL1CJUS1203	B9XUGRD0 080BA9S120LG	N/A
E22HL9X8	800EPPL5 800E3DL5A	ZA2BV053 ZA2BV6120 DL1CJUS1205	B9XUARD0 080BA9S120LA	N/A

# E22 Series Cross-reference Tables

Pushbutton, Indicator Light, and Selector Switch Cross Reference (cont'd)				
Cutler-Hammer	Allen-Bradley	Telemecanique XB2B (chrome bezel) XA2B (black bezel)	GE C-2000	Siemens
<b>Indicating Lights (cont'd)</b>				
		<i>Use ZA2 or ZB2 for these indicating lights</i>		
E22H2X11	800EPPL4 800E3TL5	ZA2BV04 ZA2BV3	P9XLRGJI	3SB1001-6CC06 3SB02-CBH 3SB1400-5M
E22H3X11	800EPPL3 800E3TL5	ZA2BV03 ZA2BVB3	P9XLGGJI	3SB1001-6CE06 3SB02-CBH 3SB1400-5M
E22H9X1	800EPPL5 800E3TL5	ZA2BV05 ZA2BV3	P9XLAGJI	3SB1001-6CD06 3SB02-CBH 3SB1400-5M
E22TB2X26	800EPL4 800E3TLT5X11	ZA2BW14 ZA2B2065120	P9XPLRSDN30NKJI	3SB02-UPR1P 3SB1910-ODC 3SB1400-0B
E22TP3X26	800EPL3 800E3TLT5X11	ZA2BW13 ZA2BW065120	P9XPLGSDN30NKJI	3SB02-UPR1P 3SB1910-ODE 3SB1400-0B
E22TB9X26	800DPLE5 800ETLT5X11	ZA2B215 ZA2BW065120	P9XPLASDN30NKJI	3SB02-UPR1P 3SB1910-ODD 3SB1400-0B
E22TB2X27	800EPL4 800E3TLT5X11	ZA2BW14 ZA2BW035	P9XPLRSDN30NHJI	3SB100-0QC01 3SB02-CBH 3SB1400-5M
E22TB3X27	800EPL3 800E3TLT5X11	ZA2BW13 ZA2BW035	P9XPLGSDN30NHJI	3SB1001-0QE01 3SB02-CBH 3SB1400-5M
E22TB9X27	800EPL5 800E3TLT5X11	ZA2BW15 ZA2BW035	P9XPLASDN30NHJI	3SB1001-0QA01 3SB02-CBH 3SB1400-5M
<b>Selector Switches</b>				
E22XB51A	800EPSM22 800E3LX10	ZA2BD2 ZA2BZ101	P9XSMD0N P9B10VN	3SB02-2MKBP 3SB1400-0B
E22XB51C	800EPSM22 800E3LX11	ZA2BD2 ZA2BZ105	P9XSMD0N P9B11VN	3SB02-2MKBP 3SB1400-0C
E22XBG1RR	800EPSM32 800E3LX20 800E3LX02	ZA2BD3 ZA2BZ103 ZA2BZ104	P9XSMZ0N P9B11VN	3SB02-3MKBP 3SB1400-0G 3SB1400-0H
E22KB53A	800EPKM2Z1 800E3LX11	ZA2BG4 ZA2BZ101	P9XSCD0K95 P9B10VN	3XB02-2MHC1P 3SB1400-0B
E22KB62A	800EPKR2Z1 800E3LX10	ZA2BG6 ZA2BZ101	P9XSCD0K95 P9B10VN	3SB02-2LHC1P 3SB1400-0B
E22KBG7RR	800EPKM3R1 800E3 800E3LX11	ZA2BG0 ZA2BZ103 ZA2BZ104	P9XSCZ0T95 (2) P9B11VN	3SB02-3MHC6P 3SB1400-0G 3SB1440-0H
E22KBG7D	800EPKM3R1 800E3LX10	ZA2BG0 ZA2BZ103	P9XSCU0K95	3SB02-3MHC2P 3SB1400-0G



Cutler-Hammer

# NEMA Ruggedness at IEC Prices

## You asked for them

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 30 mm 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.

## 30 mm 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.

Ours: ..... \$19.50 (HT8AAGA - operator + 1 N.O. contact block)  
Allen-Bradley: .... \$42.20 (800T-A1D1)

## 30 mm selector switches



(in knob or lever versions)

## 30 mm indicating lights



(in seven colors)

## 30 mm push-to-test indicators



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

\*All prices are U.S. published prices. AutomationDirect's prices are from March 2011 Price List. Prices and specifications may vary by dealer and configuration. Allen-Bradley industrial control component prices from <http://shop.rockwellautomation.com> 10/15/09. Prices may vary by dealer. Prices subject to change without notice.

Ours: ..... \$41.00 (HT8HFYV7)  
Allen-Bradley: .... \$87.63 (800T-Q10G)

The HT800 family of 30.5 mm push-button 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

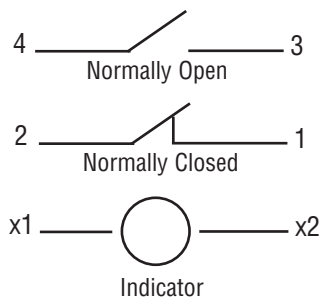
## Standards and Certifications

- 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



# HT800 30 mm Pushbuttons Specifications

HT800 — Specifications	
<b>Mechanical Ratings</b>	
<b>Frequency of Operation</b>	
<b>Pushbuttons</b>	6,000 Operations per hour
<b>Selector Switches</b>	3,000 Operations per hour
<b>Push-Pull Operators</b>	3,000 Operations per hour
<b>Mechanical Endurance/Life</b>	
<b>Pushbuttons</b>	10 x 10 <sup>6</sup> Operations 6K Ops/Hr with 6 NO on left and 6 NC on right
<b>Selector Switches</b>	250 x 10 <sup>3</sup> Operations 3K Ops/Hr with 2 NO on left and 2 NC on right
<b>Push-Pull Operators</b>	250 x 10 <sup>3</sup> Operations 3K Ops/Hr with 6 NO on left and 6 NC on right
<b>Environmental Specifications</b>	
<b>Operating Temperature</b>	10° to 140°F (-12° to 60°C)
<b>Storage Temperature</b>	-40° to 176°F (-40° to 80°C)
<b>Altitude</b>	6,562 ft. (2,000m)
<b>Humidity</b>	95% RH @ 60°C
<b>Terminals</b>	
<b>Contact Blocks</b>	#6-32 posi-drive saddle clamp type, 1 x 16 AWG to 2 x 14 AWG, 12 in-lbs max.
<b>Light Units</b>	#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	NO	<b>HT8A</b>	A600	P600
Standard Normally Closed contact	NC	<b>HT8B</b>	A600	P600
Normally Open Early Make Contact will make circuit before standard NO contact. DC ratings do not apply.	NOEM	<b>HT8C</b>	A600	—
Normally Closed Late Break contact will open after standard NC contact. DC ratings do not apply.	NCLB	<b>HT8D</b>	A600	—
Logic level, low voltage NO contact. Gold plated contacts.	NO	<b>HT8E</b>	5V 1 mA (minimum) 28V 500 mA (maximum)	

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

Note: 1: DC ratings do not apply to NOEM (Normally Open Early Make) and NCLB (Normally Closed Late Break) contact blocks HT8C and HT8D.

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