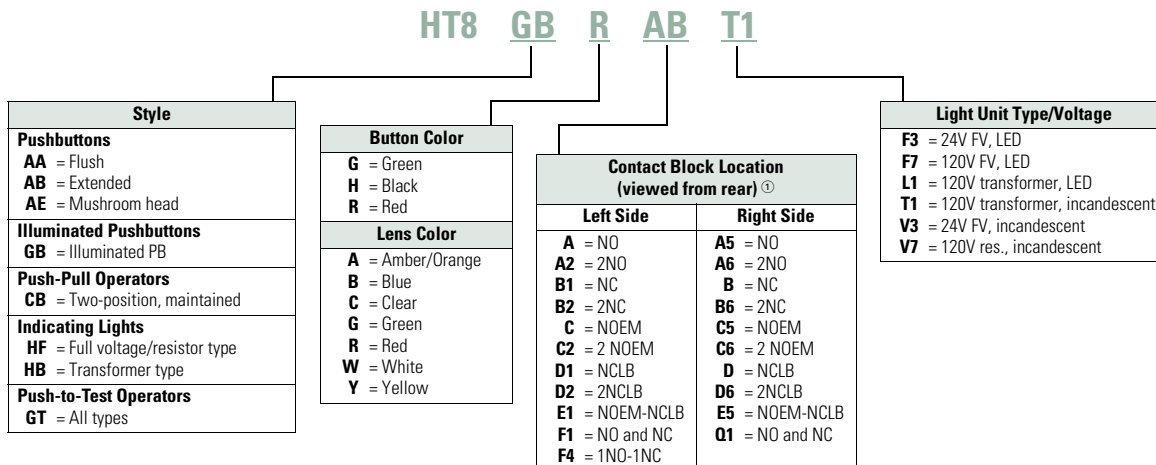


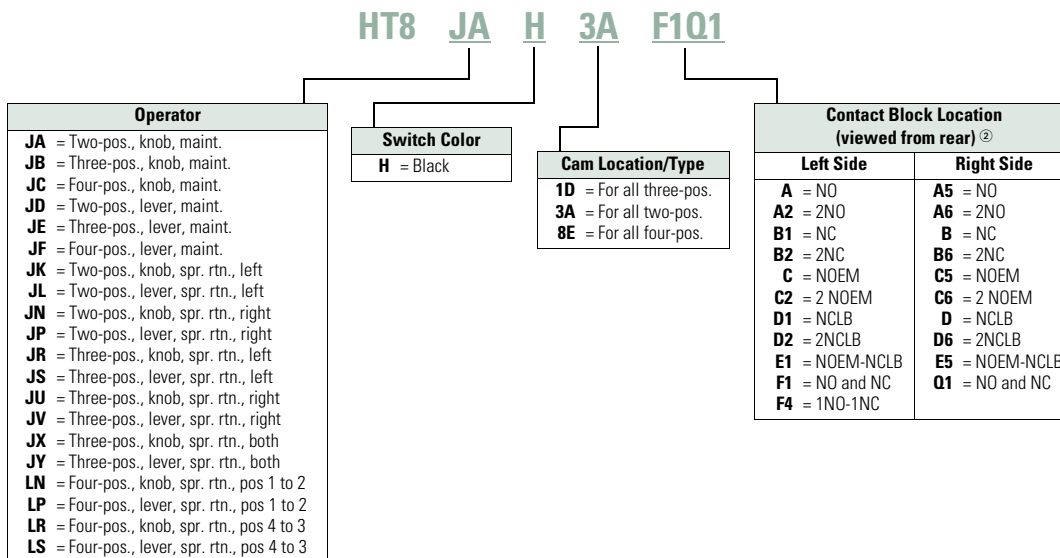
Catalog Number Selection

Catalog Number Selection is for illustrative purposes only and not to be used to create new catalog numbers.

HT800 Pushbuttons, Push-Pulls and Indicating Lights



HT800 Selector Switch



Notes

- ① Maximum of four contact blocks per side or a total of eight contact blocks recommended.
- ② Maximum of two contact blocks per side or a total of four contact blocks recommended.

Product Selection

Momentary Pushbutton Units, Non-Illuminated

UL (NEMA) Type 3, 3R, 4, 4X, 12 and 13

- Flush, extended or 40 mm mushroom head operators

HT800 Pushbuttons



HT800 Pushbuttons—Point-of-Purchase Units

Description	Catalog Number
Two-position maintained selector switch 1NO/1NC contact block, three square legend plates: OFF ON, MAN. AUTO, UP DOWN	HT8JAH3AAB-POP
Three-position maintained selector switch, black knob, 1NO/1NC contact block, three square legend plates: HAND OFF AUTO, FOR. OFF REV., OPEN OFF CLOSE	HT8JBH1DAB-POP
Three-position selector switch, spring return from left and right, black knob, 1NO/1NC contact block, three square legend plates: UP OFF DOWN, FOR OFF REV., OPEN OFF CLOSE	HT8JXH1DAB-POP
Red push-pull emergency stop, 1NO/1NC contact block, three square legend plates: STOP, EMERG. STOP, OFF	HT8CBRAB-POP
Illuminated push-pull maintained red pushbutton, 120V full voltage low profile LED, three square legend plates: STOP, EMERG. STOP, OFF	HT8FBRABFL7-POP
Illuminated push-pull maintained red pushbutton, 24V full voltage low profile LED, three square legend plates: STOP, EMERG. STOP, OFF	HT8FBRABFL3-POP
Green flush pushbutton, 1NO/1NC contact block, three square legend plates: START, ON, RUN	HT8AAGAB-POP
Black flush pushbutton, 1NO/1NC contact block, three square legend plates: RESET, JOG, OPEN	HT8AAHAB-POP
Red flush pushbutton, 1NO/1NC contact block, three square legend plates: STOP, CLOSE, OFF	HT8AARAB-POP
Red extended pushbutton, 1NO/1NC contact block, three square legend plates: STOP, CLOSE, OFF	HT8ABRAB-POP
Black extended pushbutton, 1NO/1NC contact block, three square legend plates: RESET, JOG, OPEN	HT8ABHAB-POP
Illuminated green pushbutton, 120V full voltage incandescent, 1NO/1NC contact block, three square legend plates: START, ON, RUN	HT8GBGABV7-POP
Illuminated green pushbutton, 24V full voltage incandescent, 1NO/1NC contact block, three square legend plates: START, ON, RUN	HT8GBGABV3-POP

Flush Head Operator



Extended Head Operator



40 mm Mushroom Head Operator



Momentary Contact Pushbutton Units, Non-Illuminated

Contact Type	Button Color	Flush Head Catalog Number	Extended Head Catalog Number	Mushroom Head (40 mm) Catalog Number
No contact	Black	HT8AAH	HT8ABH	HT8AEH
	Red	HT8AAR	HT8ABR	HT8AER
	Green	HT8AAG	HT8ABG	HT8AEG
1NO	Black	HT8AAHA	HT8ABHA	HT8AEHA
	Red	HT8AARA	HT8ABRA	HT8AERA
	Green	HT8AAGA	HT8ABGA	HT8AEGA
1NC	Black	HT8AAHB	HT8ABHB	HT8AEHB
	Red	HT8AARB	HT8ABRB	HT8AERB
	Green	HT8AAGB	HT8ABGB	HT8AEGB
1NO-1NC	Black	HT8AAHAB	HT8ABHAB	HT8AEHAB
	Red	HT8AARAB	HT8ABRAB	HT8AERAB
	Green	HT8AAGAB	HT8ABGAB	HT8AEGAB
2NO-2NC	Black	HT8AAHF1Q1	HT8ABHF1Q1	HT8AEHF1Q1
	Red	HT8AARF1Q1	HT8ABRF1Q1	HT8AERF1Q1
	Green	HT8AAGF1Q1	HT8ABGF1Q1	HT8AEGF1Q1

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Illuminated Pushbutton Units

UL (NEMA) Type 3, 3R, 4, 4X, 12 and 13

- Incandescent or LED
- Full voltage or transformer type
- 24V and 120V

Illuminated Pushbutton Operator**Illuminated Pushbuttons**

Type	Volts	Lens Color	Operator Only Catalog Number	1NO Catalog Number	1NC Catalog Number	1NO-1NC Catalog Number	2NO-2NC Catalog Number
Incandescent Lamp							
Full voltage	120 Vac/Vdc	No lens ①	HT8GBFV	—	—	—	—
		Red	HT8GBRV7	HT8GBRAV7	HT8GBRBV7	HT8GBRABV7	HT8GBRF1Q1V7
		Green	HT8GBGV7	HT8GBGAV7	HT8GBGBV7	HT8GBGABV7	HT8GBGF1Q1V7
		Amber	HT8GBAV7	HT8GBAAV7	HT8GBABV7	HT8GBAAV7	HT8GBAF1Q1V7
		Clear	HT8GBCV7	HT8GBCAV7	HT8GBCBV7	HT8GBCABV7	HT8GBCF1Q1V7
		White	HT8GBWV7	HT8GBWAV7	HT8GBWBV7	HT8GBWABV7	HT8GBWF1Q1V7
		Yellow	HT8GBYV7	HT8GBYAV7	HT8GBYBV7	HT8GBYABV7	HT8GBYF1Q1V7
	Blue	HT8GBBV7	HT8GBBAV7	HT8GBBBV7	HT8GBBABV7	HT8GBBF1Q1V7	
	24 Vac/Vdc	No lens ①	HT8GBFV	—	—	—	—
		Red	HT8GBRV3	HT8GBRAV3	HT8GBRBV3	HT8GBRABV3	HT8GBRF1Q1V3
		Green	HT8GBGV3	HT8GBGAV3	HT8GBGBV3	HT8GBGABV3	HT8GBGF1Q1V3
		Amber	HT8GBAV3	HT8GBAAV3	HT8GBABV3	HT8GBAAV3	HT8GBAF1Q1V3
		Clear	HT8GBCV3	HT8GBCAV3	HT8GBCBV3	HT8GBCABV3	HT8GBCF1Q1V3
		White	HT8GBWV3	HT8GBWAV3	HT8GBWBV3	HT8GBWABV3	HT8GBWF1Q1V3
Yellow		HT8GBYV3	HT8GBYAV3	HT8GBYBV3	HT8GBYABV3	HT8GBYF1Q1V3	
Transformer	120 Vac	No lens ①	HT8GBT1	—	—	—	—
		Red	HT8GBRT1	HT8GBRAT1	HT8GBRBT1	HT8GBRABT1	HT8GBRF1Q1T1
		Green	HT8GBGT1	HT8GBGAT1	HT8GBGBT1	HT8GBGABT1	HT8GBGF1Q1T1
		Amber	HT8GBAT1	HT8GBAAT1	HT8GBABT1	HT8GBAABT1	HT8GBAF1Q1T1
		Clear	HT8GBCT1	HT8GBCAT1	HT8GBCBT1	HT8GBCABT1	HT8GBCF1Q1T1
		White	HT8GBWT1	HT8GBWAT1	HT8GBWBT1	HT8GBWABT1	HT8GBWF1Q1T1
		Yellow	HT8GBYT1	HT8GBYAT1	HT8GBYBT1	HT8GBYABT1	HT8GBYF1Q1T1
Blue	HT8GBBT1	HT8GBBAT1	HT8GBBBT1	HT8GBBABT1	HT8GBBF1Q1T1		

Note

① Light unit base operator without lens or bulb.

UL (NEMA) Type 3, 3R, 4, 4X, 12 and 13

Illuminated Pushbutton Operator



Illuminated Pushbuttons, continued

Type	Volts	Lens Color	Operator Only Catalog Number	1NO Catalog Number	1NC Catalog Number	1NO-1NC Catalog Number	2NO-2NC Catalog Number
LED							
Full voltage	120 Vac/Vdc	No lens ①	HT8GBFV	—	—	—	—
		Red	HT8GBRF7	HT8GBRAF7	HT8GBRBF7	HT8GBRABF7	HT8GBRF1Q1F7
		Green	HT8GBGF7	HT8GBGAF7	HT8GBGBF7	HT8GBGABF7	HT8GBGF1Q1F7
		Amber	HT8GBAF7	HT8GBAAF7	HT8GBABF7	HT8GBAABF7	HT8GBAF1Q1F7
		Clear	HT8GBCF7	HT8GBCAF7	HT8GBCBF7	HT8GBCABF7	HT8GBCF1Q1F7
		White	HT8GBWF7	HT8GBWAF7	HT8GBWBF7	HT8GBWABF7	HT8GBWF1Q1F7
		Yellow	HT8GBYF7	HT8GBYAF7	HT8GBYBF7	HT8GBYABF7	HT8GBYF1Q1F7
		Blue	HT8GBBF7	HT8GBBAF7	HT8GBBBF7	HT8GBBABF7	HT8GBBF1Q1F7
	24 Vac/Vdc	No lens ①	HT8GBFV	—	—	—	—
		Red	HT8GBRF3	HT8GBRAF3	HT8GBRBF3	HT8GBRABF3	HT8GBRF1Q1F3
		Green	HT8GBGF3	HT8GBGAF3	HT8GBGBF3	HT8GBGABF3	HT8GBGF1Q1F3
		Amber	HT8GBAF3	HT8GBAAF3	HT8GBABF3	HT8GBAABF3	HT8GBAF1Q1F3
		Clear	HT8GBCF3	HT8GBCAF3	HT8GBCBF3	HT8GBCABF3	HT8GBCF1Q1F3
		White	HT8GBWF3	HT8GBWAF3	HT8GBWBF3	HT8GBWABF3	HT8GBWF1Q1F3
		Yellow	HT8GBYF3	HT8GBYAF3	HT8GBYBF3	HT8GBYABF3	HT8GBYF1Q1F3
Blue		HT8GBBF3	HT8GBBAF3	HT8GBBBF3	HT8GBBABF3	HT8GBBF1Q1F3	
Transformer	120 Vac	No lens ①	HT8GBT1	—	—	—	—
		Red	HT8GBRL1	HT8GBRAL1	HT8GBRBL1	HT8GBRABL1	HT8GBRF1Q1L1
		Green	HT8GBGL1	HT8GBGAL1	HT8GBGBL1	HT8GBGABL1	HT8GBGF1Q1L1
		Amber	HT8GBAL1	HT8GBAAL1	HT8GBABL1	HT8GBAABL1	HT8GBAF1Q1L1
		Clear	HT8GBCL1	HT8GBCAL1	HT8GBCL1	HT8GBCABL1	HT8GBCF1Q1L1
		White	HT8GBWL1	HT8GBWAL1	HT8GBWBL1	HT8GBWABL1	HT8GBWF1Q1L1
		Yellow	HT8GBYL1	HT8GBYAL1	HT8GBYBL1	HT8GBYABL1	HT8GBYF1Q1L1
		Blue	HT8GBBL1	HT8GBBAL1	HT8GBBBL1	HT8GBBABL1	HT8GBBF1Q1L1

Note

① Light unit base operator without lens or bulb.

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Guarded Illuminated Pushbutton Units

UL (NEMA) Type 3, 3R, 4, 4X, 12 and 13

- Incandescent or LED
- Full voltage or transformer type
- 24V and 120V

Guarded Illuminated Pushbutton Operator**Guarded Illuminated Pushbuttons**

Type	Volts	Lens Color	Operator Only Catalog Number	1NO Catalog Number	1NC Catalog Number	1NO-1NC Catalog Number	2NO-2NC Catalog Number
Incandescent Lamp							
Full voltage	120 Vac/Vdc	No lens ①	HT8GDFV	—	—	—	—
		Red	HT8GDRV7	HT8GDRAV7	HT8GDRBV7	HT8GDRABV7	HT8GDRF1Q1V7
		Green	HT8GDGV7	HT8GDGAV7	HT8GDGBV7	HT8GDGABV7	HT8GDGF1Q1V7
		Amber	HT8GDAV7	HT8GDAAV7	HT8GDABV7	HT8GDAABV7	HT8GDAF1Q1V7
		Clear	HT8GDCV7	HT8GDVAV7	HT8GDCBV7	HT8GDCABV7	HT8GDCF1Q1V7
		White	HT8GDWV7	HT8GDWAV7	HT8GDWBV7	HT8GDWABV7	HT8GDWF1Q1V7
		Yellow	HT8GDYV7	HT8GDYAV7	HT8GDYBV7	HT8GDYABV7	HT8GDYF1Q1V7
	Blue	HT8GDBV7	HT8GDBAV7	HT8GDBBV7	HT8GDBABV7	HT8GDBF1Q1V7	
	24 Vac/Vdc	No lens ①	HT8GDFV	—	—	—	—
		Red	HT8GDRV3	HT8GDRAV3	HT8GDRBV3	HT8GDRABV3	HT8GDRF1Q1V3
		Green	HT8GDGV3	HT8GDGAV3	HT8GDGBV3	HT8GDGABV3	HT8GDGF1Q1V3
		Amber	HT8GDAV3	HT8GDAAV3	HT8GDABV3	HT8GDAABV3	HT8GDAF1Q1V3
		Clear	HT8GDCV3	HT8GDVAV3	HT8GDCBV3	HT8GDCABV3	HT8GDCF1Q1V3
		White	HT8GDWV3	HT8GDWAV3	HT8GDWBV3	HT8GDWABV3	HT8GDWF1Q1V3
Yellow		HT8GDYV3	HT8GDYAV3	HT8GDYBV3	HT8GDYABV3	HT8GDYF1Q1V3	
Transformer	120 Vac	No lens ①	HT8GDT1	—	—	—	—
		Red	HT8GDRT1	HT8GDRAT1	HT8GDRBT1	HT8GDRABT1	HT8GDRF1Q1T1
		Green	HT8GDGT1	HT8GDGAT1	HT8GDGBT1	HT8GDGABT1	HT8GDGF1Q1T1
		Amber	HT8GDAT1	HT8GDAAT1	HT8GDABT1	HT8GDAABT1	HT8GDAF1Q1T1
		Clear	HT8GDCT1	HT8GDCAT1	HT8GDCBT1	HT8GDCABT1	HT8GDCF1Q1T1
		White	HT8GDWT1	HT8GDWAT1	HT8GDWBT1	HT8GDWABT1	HT8GDWF1Q1T1
		Yellow	HT8GDYT1	HT8GDYAT1	HT8GDYBT1	HT8GDYABT1	HT8GDYF1Q1T1
Blue	HT8GDBT1	HT8GDBAT1	HT8GDBBT1	HT8GDBABT1	HT8GDBF1Q1T1		

Note

① Light unit base operator without lens or bulb.

UL (NEMA) Type 3, 3R, 4, 4X, 12 and 13

Guarded Illuminated Pushbutton Operator



Guarded Illuminated Pushbuttons, continued

Type	Volts	Lens Color	Operator Only Catalog Number	1NO Catalog Number	1NC Catalog Number	1NO-1NC Catalog Number	2NO-2NC Catalog Number
LED							
Full voltage	120 Vac/Vdc	No lens ①	HT8GDFV	—	—	—	—
		Red	HT8GDRF7	HT8GDRAF7	HT8GDRBF7	HT8GDRABF7	HT8GDRF1Q1F7
		Green	HT8GDGF7	HT8GDGAF7	HT8GDGBF7	HT8GDGABF7	HT8GDGF1Q1F7
		Amber	HT8GDAF7	HT8GDAAF7	HT8GDABF7	HT8GDAABF7	HT8GDAF1Q1F7
		Clear	HT8GDCF7	HT8GDCAF7	HT8GDCBF7	HT8GDCABF7	HT8GDCF1Q1F7
		White	HT8GDWF7	HT8GDWAF7	HT8GDWBF7	HT8GDWABF7	HT8GDWF1Q1F7
		Yellow	HT8GDYF7	HT8GDYAF7	HT8GDYBF7	HT8GDYABF7	HT8GDYF1Q1F7
		Blue	HT8GDBF7	HT8GDBAF7	HT8GDBBF7	HT8GDBABF7	HT8GDBF1Q1F7
	24 Vac/Vdc	No lens ①	HT8GDFV	—	—	—	—
		Red	HT8GDRF3	HT8GDRAF3	HT8GDRBF3	HT8GDRABF3	HT8GDRF1Q1F3
		Green	HT8GDGF3	HT8GDGAF3	HT8GDGBF3	HT8GDGABF3	HT8GDGF1Q1F3
		Amber	HT8GDAF3	HT8GDAAF3	HT8GDABF3	HT8GDAABF3	HT8GDAF1Q1F3
		Clear	HT8GDCF3	HT8GDCAF3	HT8GDCBF3	HT8GDCABF3	HT8GDCF1Q1F3
		White	HT8GDWF3	HT8GDWAF3	HT8GDWBF3	HT8GDWABF3	HT8GDWF1Q1F3
		Blue	HT8GDBF3	HT8GDBAF3	HT8GDBBF3	HT8GDBABF3	HT8GDBF1Q1F3
Transformer	120 Vac	No lens ①	HT8GDT1	—	—	—	—
		Red	HT8GDRL1	HT8GDRAL1	HT8GDRBL1	HT8GDRABL1	HT8GDRF1Q1L1
		Green	HT8GDGL1	HT8GDGAL1	HT8GDGBL1	HT8GDGABL1	HT8GDGF1Q1L1
		Amber	HT8GDAL1	HT8GDAAL1	HT8GDABL1	HT8GDAABL1	HT8GDAF1Q1L1
		Clear	HT8GDCL1	HT8GDCAL1	HT8GDCBL1	HT8GDCABL1	HT8GDCF1Q1L1
		White	HT8GDWL1	HT8GDWAL1	HT8GDWBL1	HT8GDWABL1	HT8GDWF1Q1L1
		Yellow	HT8GDYL1	HT8GDYAL1	HT8GDYBL1	HT8GDYABL1	HT8GDYF1Q1L1
		Blue	HT8GDBL1	HT8GDBAL1	HT8GDBBL1	HT8GDBABL1	HT8GDBF1Q1L1

Note

① Light unit base operator without lens or bulb.

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Indicating Light Units

UL (NEMA) Type 3, 3R, 4, 4X, 12 and 13

- Incandescent or LED
- Full voltage or transformer type
- Standard and PresTest types
- 24V and 120V

PresTest—This device incorporates a press-to-test feature whereby depressing the lens disconnects the light from the source

being monitored and connects the lamp to a continuously energized circuit for immediate detection of faulty lamps.

Indicating Light Unit



PresTest Light Unit



Indicating Light Units

Type	Volts	Lens Color	Indicating Light Catalog Number	PresTest Catalog Number
Incandescent				
Full voltage	120 Vac/Vdc	No lens ①	HT8HFFV	HT8GTFV
		Red	HT8HFRV7	HT8GTRV7
		Green	HT8HFGV7	HT8GTGV7
		Amber	HT8HFAV7	HT8GTAV7
		Clear	HT8HFCV7	HT8GTCV7
		White	HT8HFVV7	HT8GTWV7
		Yellow	HT8HFYV7	HT8GTYV7
		Blue	HT8HFBV7	HT8GTBV7
		24 Vac/Vdc	No lens ①	HT8HFFV
	Red		HT8HFRV3	HT8GTRV3
	Green		HT8HFGV3	HT8GTGV3
	Amber		HT8HFAV3	HT8GTAV3
	Clear		HT8HFCV3	HT8GTCV3
	White		HT8HFVV3	HT8GTWV3
	Transformer	120 Vac 50/60 Hz	No lens ①	HT8HBT1
Red			HT8HBRT1	HT8GTRT1
Green			HT8HBGT1	HT8GTGT1
Amber			HT8HBAT1	HT8GTAT1
Clear			HT8HBCT1	HT8GCT1
White			HT8HBWT1	HT8GTWT1
Yellow			HT8HBYT1	HT8GTYT1
Blue			HT8HBBT1	HT8GTBT1
24 Vac/Vdc			No lens ①	HT8HFFV
		Red	HT8HFRV3	HT8GTRV3
		Green	HT8HFGV3	HT8GTGV3
		Amber	HT8HFAV3	HT8GTAV3
		Clear	HT8HFCV3	HT8GTCV3
		White	HT8HFVV3	HT8GTWV3

Note

① Light unit base operator without lens or bulb.

UL (NEMA) Type 3, 3R, 4, 4X, 12 and 13

Indicating Light Unit



Indicating Light Units, continued

PresTest Light Unit



Type	Volts	Lens Color	Indicating Light Catalog Number	PresTest Catalog Number
LED				
Full voltage	120 Vac/Vdc	No lens ①	HT8HFFV	HT8GTFV
		Red	HT8HFRF7	HT8GTRF7
		Green	HT8HFGF7	HT8GTGF7
		Amber	HT8HFAF7	HT8GTAF7
		Clear	HT8HFCF7	HT8GTCF7
		White	HT8HFWF7	HT8GTWF7
		Yellow	HT8HFVF7	HT8GTVF7
		Blue	HT8HBF7	HT8GTBF7
	24 Vac/Vdc	No lens ①	HT8HFFV	HT8GTFV
		Red	HT8HFRF3	HT8GTRF3
		Green	HT8HFGF3	HT8GTGF3
		Amber	HT8HFAF3	HT8GTAF3
		Clear	HT8HFCF3	HT8GTCF3
		White	HT8HFWF3	HT8GTWF3
		Yellow	HT8HFVF3	HT8GTVF3
		Blue	HT8HBF3	HT8GTBF3
Transformer	120 Vac 50/60 Hz	No lens ①	HT8HBT1	HT8GTT1
		Red	HT8HBRL1	HT8GTRL1
		Green	HT8HBGL1	HT8GTGL1
		Amber	HT8HBAL1	HT8GTAL1
		Clear	HT8HBCL1	HT8GTCL1
		White	HT8HBWL1	HT8GTWL1
		Yellow	HT8HBYL1	HT8GTYL1
		Blue	HT8HBBL1	HT8GTBL1

Note

① Light unit base operator without lens or bulb.

1.9

Pushbuttons and Indicating Lights

30.5 mm Watertight/Oiltight—HT800

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Push-Pull Units

UL (NEMA) Type 3, 3R, 4, 4X, 12 and 13

- 40 mm mushroom head
- Two-position maintained
- Non-illuminated

Round Head Two-Position Push-Pull Unit



Flat Head Two-Position Push-Pull Unit



Two-Position Push-Pull, Maintained, Non-Illuminated

Contact Type	Operator Position—Maintained		Button Color	Round Head Mushroom Head Button Catalog Number	Flat Head Mushroom Head Button Catalog Number
	Out	In			
No contact	—	—	Black	HT8CBH	HT8DBH
			Red	HT8CBR	HT8DBR
			Green	HT8CBG	HT8DBG
NO	0	X	Black	HT8CBHA	HT8DBHA
			Red	HT8CBRA	HT8DBRA
			Green	HT8CBGA	HT8DBGA
NC	X	0	Black	HT8CBHB	HT8DBHB
			Red	HT8CBRB	HT8DBRB
			Green	HT8CBGB	HT8DBGB
NO-NC	0	X	Black	HT8CBHAB	HT8DBHAB
	X	0	Red	HT8CBRAB	HT8DBRAB
			Green	HT8CBGAB	HT8DBGAB
NCLB [Ⓢ]	X	0	Black	HT8CBHD1B	HT8DBHD1B
NC	X	0	Red	HT8CBRD1B	HT8DBRD1B
			Green	HT8CBGD1B	HT8DBGD1B
NCLB [Ⓢ]	X	0	Black	HT8CBHD1D	HT8DBHD1D
NCLB [Ⓢ]	X	0	Red	HT8CBRD1D	HT8DBRD1D
			Green	HT8CBGD1D	HT8DBGD1D

Note

[Ⓢ] NCLB = normally closed late break.

Illuminated Push-Pull Units

UL (NEMA) Type 3, 3R, 4, 4X, 12 and 13

- Incandescent or LED
- Full voltage or transformer type
- 24V and 120V

Illuminated Push-Pull Unit



Illuminated Push-Pull Units

Type	Volts	Lens Color	Operator Only Catalog Number	1NO Catalog Number	1NC Catalog Number	1NO-1NC Catalog Number	2NCLB Catalog Number
Incandescent Lamp							
Full voltage	120 Vac/Vdc	Red	HT8FBRV7	HT8FBRAV7	HT8FBRBV7	HT8FBRAV7	HT8FBRD1DV7
		Green	HT8FBGV7	HT8FBGAV7	HT8FBGBV7	HT8FBGAV7	HT8FBGD1DV7
	24 Vac/Vdc	Red	HT8FBRV3	HT8FBRAV3	HT8FBRBV3	HT8FBRAV3	HT8FBRD1DV3
		Green	HT8FBGV3	HT8FBGAV3	HT8FBGBV3	HT8FBGAV3	HT8FBGD1DV3
Transformer	120 Vac	Red	HT8FBRT1	HT8FBRA1	HT8FBRBT1	HT8FBRA1	HT8FBRD1DT1
		Green	HT8FBGT1	HT8FBGA1	HT8FBGBT1	HT8FBGA1	HT8FBGD1DT1
LED Lamp							
Full voltage	120 Vac/Vdc	Red	HT8FBRF7	HT8FBRAF7	HT8FBRBF7	HT8FBRAF7	HT8FBRD1DF7
		Green	HT8FBGF7	HT8FBGAF7	HT8FBGBF7	HT8FBGAF7	HT8FBGD1DF7
	24 Vac/Vdc	Red	HT8FBRF3	HT8FBRAF3	HT8FBRBF3	HT8FBRAF3	HT8FBRD1DF3
		Green	HT8FBGF3	HT8FBGAF3	HT8FBGBF3	HT8FBGAF3	HT8FBGD1DF3
Transformer	120 Vac	Red	HT8FBRL1	HT8FBRA1	HT8FBRBL1	HT8FBRA1	HT8FBRD1DL1
		Green	HT8FBGL1	HT8FBGA1	HT8FBGBL1	HT8FBGA1	HT8FBGD1DL1

Note: Complete illuminated push-pull switches will not fit in a standard 3 in deep enclosure.

Illuminated Push-Pull Units with Low Profile Light Units

Type	Voltage	Color	Fingersafe	Operator Only Catalog Number	1NO Catalog Number	1NC Catalog Number	1NO-1NC Catalog Number	2NCLB Catalog Number	1NO-1NCLB Catalog Number
LED Lamp									
Full voltage	120 Vac/Vdc	Red	Yes	HT8FBRFL7P	HT8FBRAFL7P	HT8FBRBFL7P	HT8FBRAFL7P	HT8FBRD1DFL7P	HT8FBRD1BFL7P
		Red	No	HT8FBRFL7	HT8FBRAFL7	HT8FBRBFL7	HT8FBRAFL7	HT8FBRD1DFL7	HT8FBRD1BFL7
	24 Vac/Vdc	Red	Yes	HT8FBRFL3P	HT8FBRAFL3P	HT8FBRBFL3P	HT8FBRAFL3P	HT8FBRD1DFL3P	HT8FBRD1BFL3P
		Red	No	HT8FBRFL3	HT8FBRAFL3	HT8FBRBFL3	HT8FBRAFL3	HT8FBRD1DFL3	HT8FBRD1BFL3
Incandescent									
Full voltage	120 Vac/Vdc	Red	Yes	HT8FBRVL7P	HT8FBRAVL7P	HT8FBRBVL7P	HT8FBRAVL7P	HT8FBRD1DVL7P	HT8FBRD1BVL7P
		Red	No	HT8FBRVL7	HT8FBRAVL7	HT8FBRBVL7	HT8FBRAVL7	HT8FBRD1DVL7	HT8FBRD1BVL7
	24 Vac/Vdc	Red	Yes	HT8FBRVL3P	HT8FBRAVL3P	HT8FBRBVL3P	HT8FBRAVL3P	HT8FBRD1DVL3P	HT8FBRD1BVL3P
		Red	No	HT8FBRVL3	HT8FBRAVL3	HT8FBRBVL3	HT8FBRAVL3	HT8FBRD1DVL3	HT8FBRD1BVL3

1

Selector Switch Units

UL (NEMA) Type 3, 3R, 4, 4X, 12 and 13

- Two-, three- and four-position
- Non-illuminated

Standard Knob Operator



Standard Lever Operator



Two-Position Selector Switch Units, Non-Illuminated

Contact Type	Operator Position ^①		Operating Mode ^②		Standard Black Knob Catalog Number	Standard Black Lever Catalog Number
No contacts	—	—	M	M	HT8JAH3A	HT8JDH3A
			S	M	HT8JKH3A	HT8JLH3A
			M	S	HT8JNH3A	HT8JPH3A
1NO	0	X	M	M	HT8JAH3AA5	HT8JDH3AA5
			S	M	HT8JKH3AA5	HT8JLH3AA5
			M	S	HT8JNH3AA5	HT8JPH3AA5
2NO	X 0	0 X	M	M	HT8JAH3AAA5	HT8JDH3AAA5
			S	M	HT8JKH3AAA5	HT8JLH3AAA5
			M	S	HT8JNH3AAA5	HT8JPH3AAA5
2NO-2NC	X 0 X 0	0 X 0 X	M	M	HT8JAH3AF1Q1	HT8JDH3AF1Q1
			S	M	HT8JKH3AF1Q1	HT8JLH3AF1Q1
			M	S	HT8JNH3AF1Q1	HT8JPH3AF1Q1

Standard Knob Operator



Standard Lever Operator



Three-Position Selector Switch Units, Non-Illuminated

Contact Type	Operator Position ^①			Operating Mode ^②			Standard Black Knob Catalog Number	Standard Black Lever Catalog Number
No contacts	—	—	—	M	M	M	HT8JBH1D	HT8JEH1D
				S	M	M	HT8JRH1D	HT8JSH1D
				M	M	S	HT8JUH1D	HT8JVH1D
				S	M	S	HT8JXH1D	HT8JYH1D
2NO	X 0	0 0	0 X	M	M	M	HT8JBH1DAA5	HT8JEH1DAA5
				S	M	M	HT8JRH1DAA5	HT8JSH1DAA5
				M	M	S	HT8JUH1DAA5	HT8JVH1DAA5
				S	M	S	HT8JXH1DAA5	HT8JYH1DAA5
2NO-2NC ^③	X 0 0	0 X 0	0 0 X	M	M	M	HT8JBH1DF1Q1	HT8JEH1DF1Q1
				S	M	M	HT8JRH1DF1Q1	HT8JSH1DF1Q1
				M	M	S	HT8JUH1DF1Q1	HT8JVH1DF1Q1
				S	M	S	HT8JXH1DF1Q1	HT8JYH1DF1Q1
2NO-2NC	X 0 0 X	0 X 0 X	X X 0 0	M	M	M	HT8JBH1DF1Q1	HT8JEH1DF1Q1
				S	M	M	HT8JRH1DF1Q1	HT8JSH1DF1Q1
				M	M	S	HT8JUH1DF1Q1	HT8JVH1DF1Q1
				S	M	S	HT8JXH1DF1Q1	HT8JYH1DF1Q1

Notes

① X = closed circuit, 0 = open circuit.

② M = Maintained, S = Momentary.

③ For OX0, NC contacts must be wired in series—see Three-Position Selector Switch table on Page V7-T1-296.

UL (NEMA) Type 3, 3R, 4, 4X, 12 and 13

Standard Knob Operator



Four-Position Selector Switch Units, Non-Illuminated

Standard Lever Operator



Contact Type	Operator Position ^①				Operating Mode ^②				Standard Black Knob Catalog Number	Standard Black Lever Catalog Number
No contacts	—	—	—	—	M	M	M	M	HT8JCH8E	HT8JFH8E
					S	M	M	M	HT8LNH8E	HT8LPH8E
					M	M	M	S	HT8LRH8E	HT8LSH8E
2NO-2NC	X	0	0	0	M	M	M	M	HT8JCH8EF1Q1	HT8JFH8EF1Q1
	0	X	0	0	S	M	M	M	HT8LNH8EF1Q1	HT8LPH8EF1Q1
	0	0	X	0	S	M	M	M	HT8LNH8EF1Q1	HT8LPH8EF1Q1
	0	0	0	X	M	M	M	S	HT8LRH8EF1Q1	HT8LSH8EF1Q1

Notes

- ① X = closed circuit, 0 = open circuit.
- ② M = Maintained, S = Momentary.







1

Selector Switch Contact Block Selection

For Two-, Three- and Four-Position Selector Switches










Two-Position Selector Switch (Cam Code 3A)

Operator Position

			Left	or	Right
X	0		 NO		 NC
0		X	 NC		 NO









Three-Position Selector Switch (Cam Code 1D)

Operator Position

				Left	Right
X	0	0		 NO	—
0		X	0	 NC	 NC
0	0	0	X	—	 NO
0		X	X	 NC	—
X		X	0	—	 NC









Four-Position Selector Switch (Cam Code 8E)

Operator Position


					Left	Right
X	0	0	0		 NO	—
0		X	0	0	 NC	—
0	0	0	X	0	—	 NO
0	0	0	0	X	—	 NC

Accessories

HT800 Accessories

	Description	Catalog Number
<p>HT8A15</p> 	Illuminated Pushbutton Guard	HT8A15
<p>HT8WRENCH</p> 	Wrench Tool	HT8WRENCH
<p>HT8LAMPTOOL</p> 	Lamp/Bulb Removal Tool	HT8LAMPTOOL
<p>HT8X1</p> 	Thrust Washer (Anti-rotation) (Included with every operator)	HT8X1
<p>HT8X2</p> 	Trim Ring (Included with every operator)	HT8X2
<p>HT8X3</p> 	Sealing/Spacer Washer (Five included with every operator)	HT8X3
<p>HT8GR1</p> 	Grounding Kit for Pushbuttons and Selector Switches (Included with every operator)	HT8GR1
<p>HT8GR2</p> 	Grounding Kit for Indicating Lights (Included with indicating lights)	HT8GR2

Light Units

Light Unit	Type	Voltage	Catalog Number
	Full voltage	24 Vac/Vdc	HT8F3V3
		120 Vac/Vdc	HT8F7V8
	Transformer	120 Vac	HT8L1T1

Options

Legend Plates ①

Standard



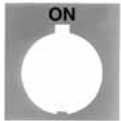
Jumbo



For Pushbutton Operators and Indicating Lights

Legend	Color of Field	Standard Catalog Number	Jumbo Catalog Number	Legend	Color of Field	Standard Catalog Number	Jumbo Catalog Number
Letters on Legend Plates Below are 3/16 in High							
CLAMP	Black	HT8SP90	HT8LP90	OFF	Red	HT8SP24	HT8LP24
CLOSE		HT8SP73	HT8LP73	ON	Black	HT8SP25	HT8LP25
DOWN		HT8SP74	HT8LP74	OPEN		HT8SP26	HT8LP26
EMERG. STOP		HT8SP13	HT8LP13	OUT		HT8SP27	HT8LP27
FAST		HT8SP75	HT8LP75	POWER ON		HT8SP80	HT8LP80
FASTER		HT8SP87	HT8LP87	RAISE		HT8SP28	HT8LP28
FEEDER ON		HT8SP94	HT8LP94	READY		HT8SP86	HT8LP86
FEEDER OFF		HT8SP95	HT8LP95	RESET		HT8SP29	HT8LP29
FORWARD		HT8SP15	HT8LP15	REVERSE		HT8SP30	HT8LP30
HIGH		HT8SP16	HT8LP16	RUN		HT8SP31	HT8LP31
IN		HT8SP17	HT8LP17	SAFE		HT8SP85	HT8LP85
INCH		HT8SP18	HT8LP18	SLOW		HT8SP32	HT8LP32
JOG		HT8SP19	HT8LP19	SLOWER		HT8SP88	HT8LP88
JOG FOR.		HT8SP20	HT8LP20	START		HT8SP33	HT8LP33
JOG REV.		HT8SP21	HT8LP21	STOP	Red	HT8SP34	HT8LP34
LOW		HT8SP22	HT8LP22	TEST	Black	HT8SP83	HT8LP83
LOWER		HT8SP23	HT8LP23	TRANSFER		HT8SP93	HT8LP93
LUBE-FAIL		HT8SP92	HT8LP92	TRIP		HT8SP84	HT8LP84
MOTOR RUN		HT8SP81	HT8LP81	UNCLAMP		HT8SP91	HT8LP91
MOTOR STOP		HT8SP82	HT8LP82	UP		HT8SP35	HT8LP35

Standard



Jumbo



For Selector Switch Operators

Legend	Color of Field	Standard Catalog Number	Jumbo Catalog Number	Legend	Color of Field	Standard Catalog Number	Jumbo Catalog Number
Two-Position—3/16 in High Lettering				Three-Position—3/16 in High Lettering			
FOR. REV.	Black	HT8SP38	HT8LP38	AUTO OFF HAND	Black	HT8SP49	HT8LP49
HAND AUTO		HT8SP39	HT8LP39	FOR. OFF REV.		HT8SP50	HT8LP50
HIGH LOW		HT8SP40	HT8LP40	FOR. SAFE REV.		HT8SP69	HT8LP69
JOG RUN		HT8SP41	HT8LP41	HAND OFF AUTO		HT8SP51	HT8LP51
MAN. AUTO		HT8SP67	HT8LP67	MAN. OFF AUTO		HT8SP68	HT8LP68
OFF ON		HT8SP42	HT8LP42	OPEN OFF CLOSE		HT8SP53	HT8LP53
OPEN CLOSE		HT8SP43	HT8LP43	RUN SAFE JOG		HT8SP70	HT8LP70
RUN JOG		HT8SP44	HT8LP44	UP OFF DOWN		HT8SP54	HT8LP54
SAFE RUN		HT8SP45	HT8LP45	ON STOP SAFE		HT8SP71	HT8LP71
START JOG		HT8SP46	HT8LP46				
START STOP		HT8SP47	HT8LP47				
UP DOWN		HT8SP48	HT8LP48				

For Push-Pull Units

Legend	Color of Field	Standard ② Catalog Number	Jumbo ③ Catalog Number
ON/OFF	Black	HT8PP5	HT8R5
OPEN/CLOSE		HT8PP8	HT8R8
UP/DOWN		HT8PP11	HT8R11

Blank Plastic Legend Plates—Square

Legend	Color of Field	Standard Catalog Number	Jumbo Catalog Number
Black	White/Silver	HT8SP76	HT8LP76
White	Red/Black	HT8SP77	HT8LP77

Notes

① For dimensions, see **Page V7-T1-306**.

② 3/32 in high lettering.

③ 1/8 in high lettering.

Legend Plates with Non-Standard Markings

When Ordering Specify

- Catalog number of blank plate.
- Insert the following into Order Notes: legend, letter size and locations. See information below.

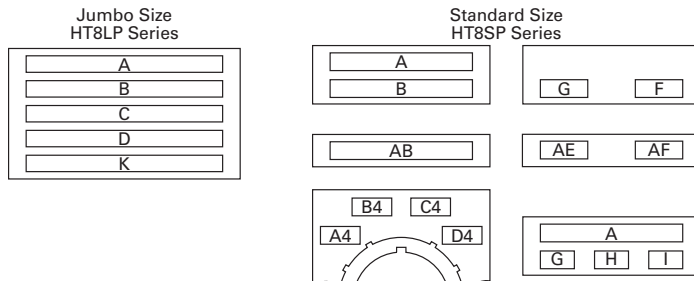
Ordering Example:

Catalog no.: **HT85P76STAMP**
 Letter size: 3/32 in (2.4 mm)
 Pos. A—POWER HOUSE
 Pos. B—START PUMP 1

Legend Characters Available

A B C D E F G H I J K L M N O
 P Q R S T U V W X Y Z / - . , 1
 2 3 4 5 6 7 8 9 0

Legend Positions



Blank Plastic Legend Plates for Non-Standard Markings—Plastic

Legend	Color of Field	Standard Catalog Number	Jumbo Catalog Number
Black	White/Silver	HT8SP76STAMP	HT8LP76STAMP
White	Red/Black	HT8SP77STAMP	HT8LP77STAMP

Maximum Characters per Legend Plate and Approximate Dimensions

Top (Aluminum and Plastic)	Style	Character Size		1/8 in High		3/16 in High	
		3/32 in High	Number of Characters	Number of Lines	Number of Characters	Number of Lines	Number of Characters
Standard	Square	2	18	2	13	1	9
Jumbo ①	Square	5	23	3	18	2	12

Note

① Can be used on top row only of any enclosure.

1

Contact Blocks

NO Contact Block



NC Contact Block



Contact Blocks ①②

Description/Function	Contact Type	Without Guard Catalog Number	Fingerproof Catalog Number
Standard normally open contact	NO	HT8A	HT8AP
Standard normally closed contact	NC	HT8B	HT8BP
Normally open early make contact will make circuit before standard NO contact. DC ratings do not apply.	NOEM	HT8C	HT8CP
Normally closed late break contact will open after standard NC contact. DC ratings do not apply.	NCLB	HT8D	HT8DP
Logic level, low voltage NO contact. Gold plated contacts.	NO	HT8E	HT8EP

Contact Block Location (Viewed from Rear)

Suffix Codes ③④

Left Side	Right Side
A = NO	A5 = NO
A2 = 2NO	A6 = 2NO
B1 = NC	B = NC
B2 = 2NC	B6 = 2NC
C = NOEM	C5 = NOEM
C2 = 2 NOEM	C6 = 2 NOEM
D1 = NCLB	D = NCLB
D2 = 2 NCLB	D6 = 2 NCLB
E1 = NOEM-NCLB	E5 = NOEM-NCLB
F1 = NO and NC	Q1 = NO and NC
F4 = 1NO-1NC	

Notes

- ① See **Page V7-T1-302** for contact block electrical ratings.
- ② Maximum of four contact blocks per side or a total of eight contact blocks recommended.
- ③ Maximum of two contact blocks per side or a total of four contact blocks recommended.
- ④ Standard contact blocks without fingerproof protection.

Replacement Parts

Replacement Bulbs and LEDs

Incandescent Bulb



Voltage	Color	Catalog Number
Incandescent		
6V	—	HT8BULBV1
24V	—	HT8BULBV3
120V	—	HT8BULBV7

LED Bulb



Voltage	Color	Catalog Number
LED		
6–12V (For use with transformers with 6V secondary winding)	Red	HT8LEDRF1
	Green	HT8LEDGF1
	Amber/orange	HT8LEDAF1
	White/clear	HT8LEDWF1
	Yellow	HT8LEDYF1
	Blue	HT8LEDBF1
24V	Red	HT8LEDRF3
	Green	HT8LEDGF3
	Amber/orange	HT8LEDAF3
	White/clear	HT8LEDWF3
	Yellow	HT8LEDYF3
	Blue	HT8LEDBF3
120V	Red	HT8LEDRF7
	Green	HT8LEDGF7
	Amber/orange	HT8LEDAF7
	White/clear	HT8LEDWF7
	Yellow	HT8LEDYF7
	Blue	HT8LEDBF7

Replacement Lenses

Color	Indicating Lights Catalog Number	PresTest Lights Illuminated Pushbuttons Catalog Number
Amber	HT8LA	HT8BA
Blue	HT8LB	HT8BB
Clear	HT8LC	HT8BC
Green	HT8LG	HT8BG
Red	HT8LR	HT8BR
White	HT8LW	HT8BW
Yellow	HT8LY	HT8BY

Technical Data and Specifications

HT800—Specifications

Description	Specification
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 NO on left and 6 NC on right
Selector switches	250 x 10 ³ operations 3K ops/hr with 2 NO on left and 2 NC on right
Push-pull operators	250 x 10 ³ operations 3K ops/hr with 6 NO on left and 6 NC on right
Climatic Conditions	
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 at 60°C
Terminals	
Contact blocks	#6-32 posidrive saddle clamp type, 1 x 16 AWG to 2 x 14 AWG, 12 in-lbs max.
Light units	#6-32 posidrive saddle clamp type, 1 x 22 AWG to 2 x 14 AWG, 7 in-lbs max.
Electrical Ratings	
Standard contact blocks UL (NEMA) rating	See table below.
Logic level contact block power rating	5V 1 mA (minimum) 28V 500 mA (maximum)

Electrical Ratings—HT800 Standard Contact Blocks, UL Rating

Description/Function	Contact Type	AC	DC	Catalog Number
Standard normally open contact	NO	A600 ①	P600 ②	HT8A
Standard normally closed contact	NC	A600 ①	P600 ②	HT8B
Normally open early make contact will make circuit before standard NO contact. DC ratings do not apply.	NOEM	A600 ①	—	HT8C
Normally closed late break contact will open after standard NC contact. DC ratings do not apply.	NCLB	A600 ①	—	HT8D
Logic level, low voltage NO contact. Gold plated contacts.	NO	5V 1 mA (minimum) 28V 500 mA (maximum)		HT8E

UL A600 and P600 Ratings

Description	50 Vac or 60 Hz				Vdc ③		
	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
Voltamperes:							
Make and emerg. interrupting capacity	7200	7200	7200	7200	138 ④	138 ④	138 ④
Normal load break	720	720	720	720	138	138	138

Notes

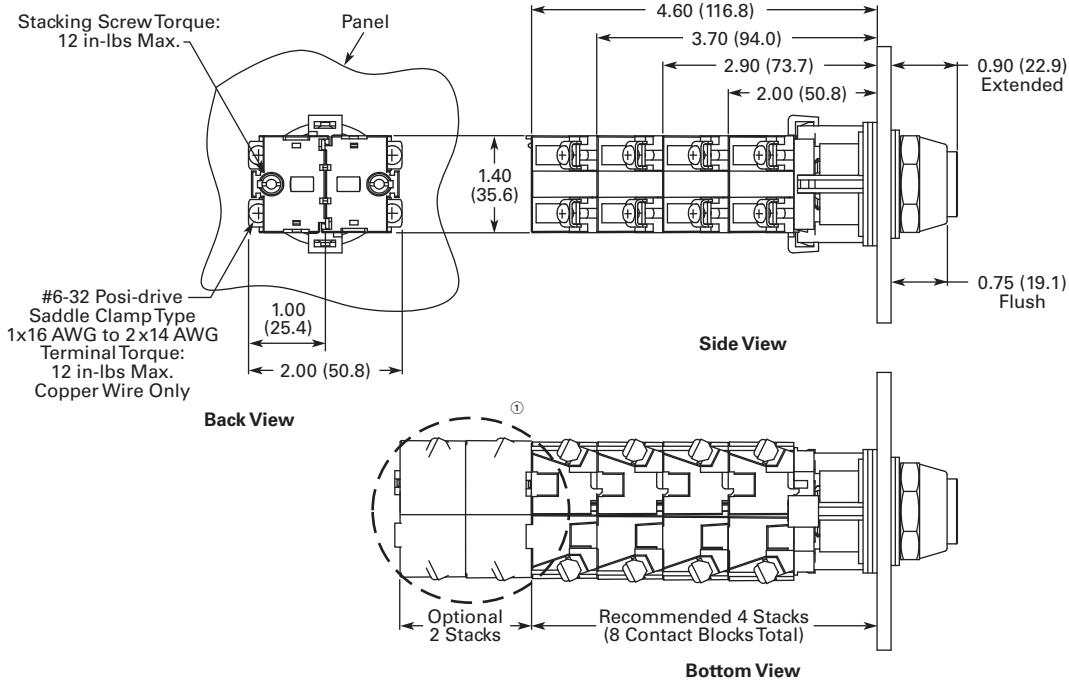
- ① Heavy-duty.
- ② Standard duty.
- ③ DC ratings do not apply to NOEM (Normally Open Early Make) and NCLB (Normal Closed Late Break) contact blocks HT8C and HT8D.
- ④ Maximum make or break volt-amperes at 300V or less.

Dimensions

Approximate Dimensions in Inches (mm)

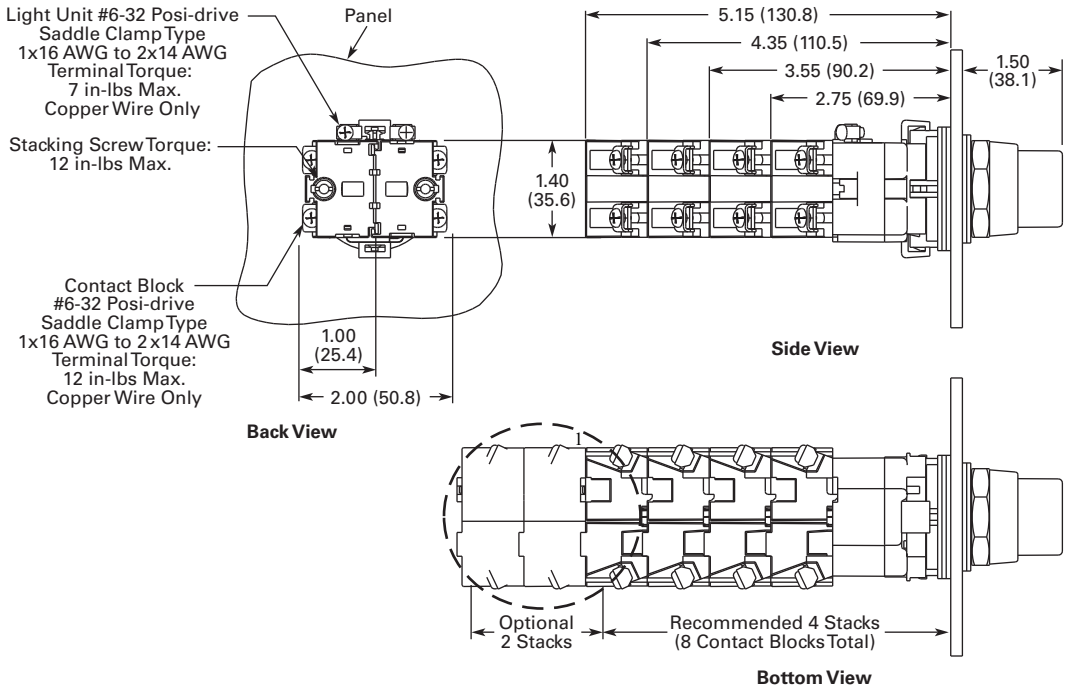
Momentary Pushbuttons—Non-Illuminated

Back, side and bottom views of pushbutton operator with attached contact blocks.



Illuminated Pushbuttons

Back, side and bottom views of pushbutton operator with attached contact blocks.



Note

① Recommended maximum of four tandem stacks of contact blocks behind operator. At users' discretion, two additional tandem stacks may be added.

1.9

Pushbuttons and Indicating Lights

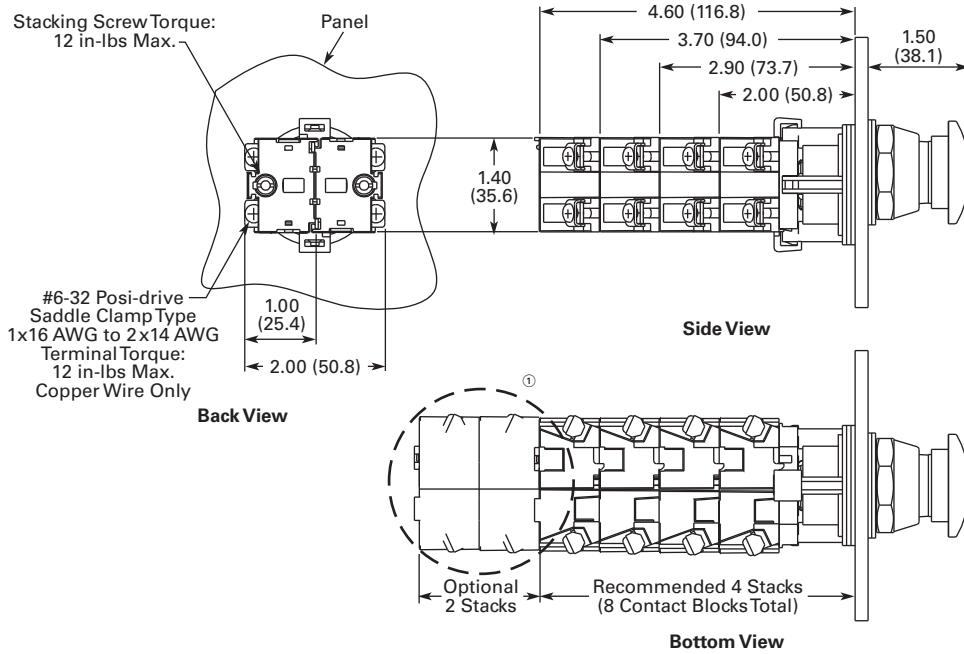
30.5 mm Watertight/Oiltight—HT800

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Approximate Dimensions in Inches (mm)

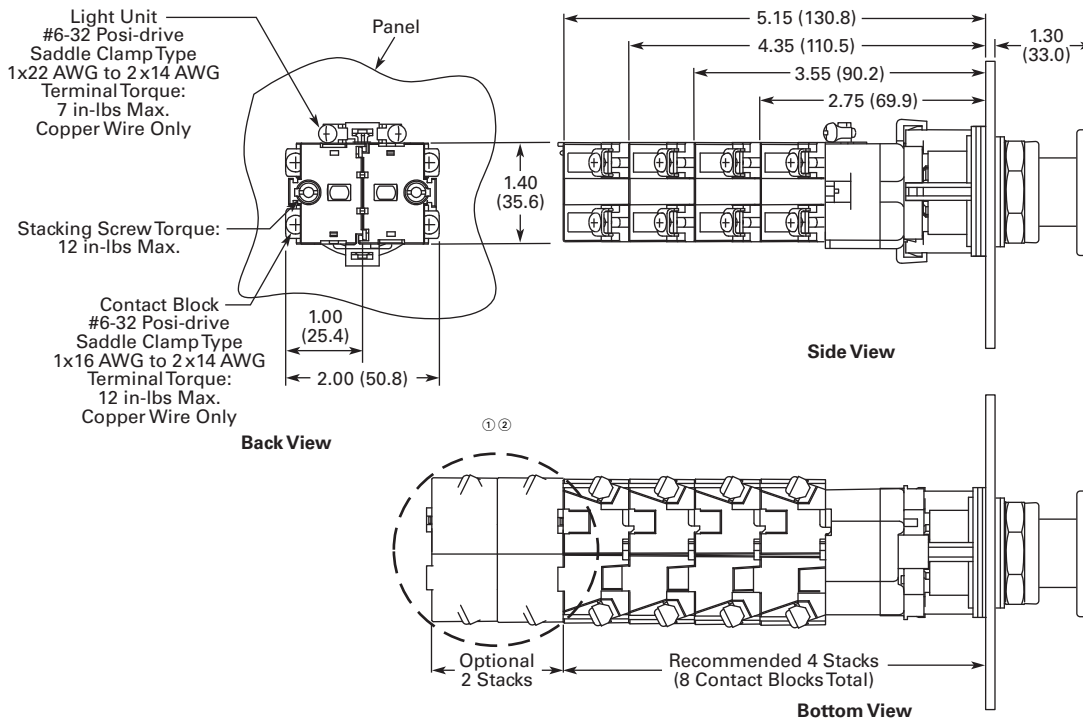
Mushroom Head Pushbuttons and Round Head MRH Push-Pull Operators

Back, side and bottom views of mushroom head operator with attached contact blocks.



Illuminated and Non-Illuminated Flat Head MRH Push-Pull Operators

Back, side and bottom views of push-pull operator with attached contact blocks.



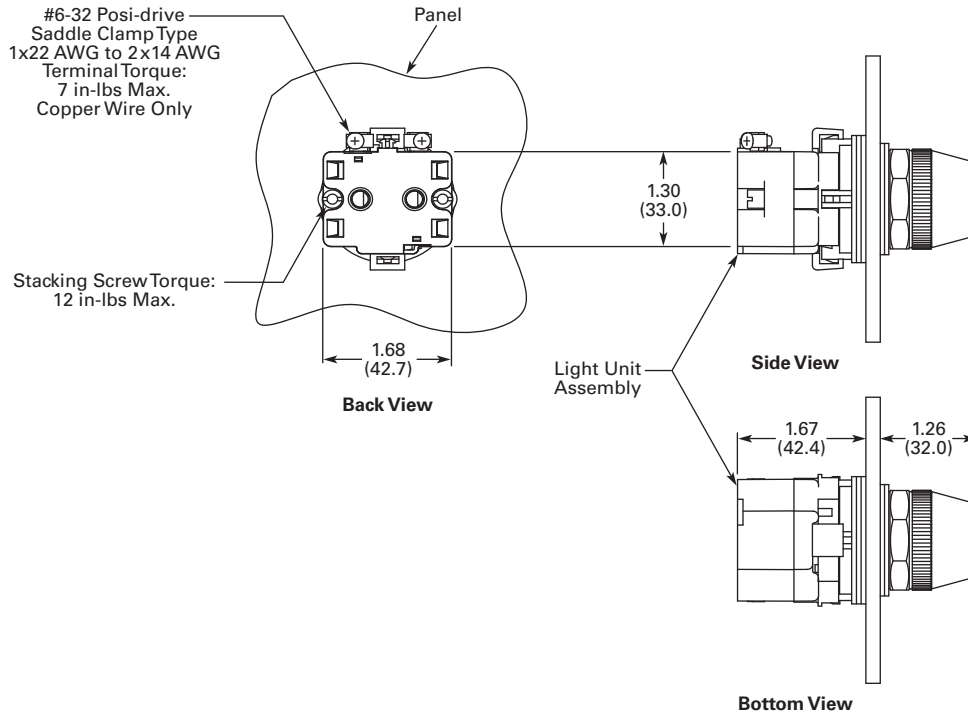
Notes

- ① Recommended maximum of four tandem stacks of contact blocks behind operator. At users' discretion, two additional tandem stacks may be added.
- ② Contact blocks mount directly to operator adaptor in non-illuminated version.

Approximate Dimensions in Inches (mm)

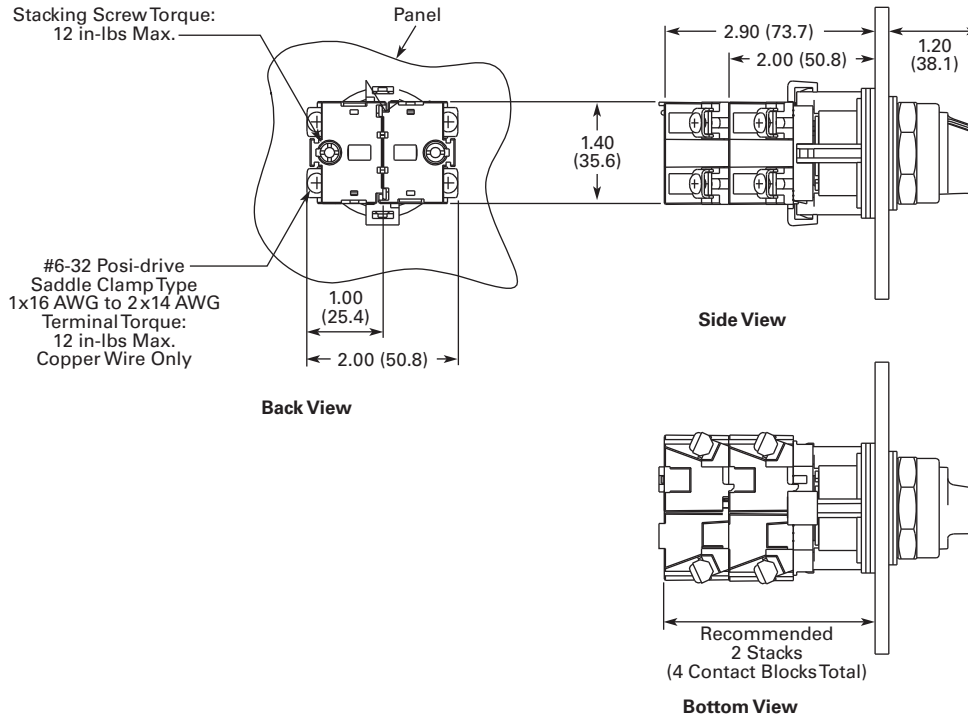
Indicating Lights

Back, side and bottom views of indicating light operator with attached contact blocks.



Selector Switches

Back, side and bottom views of selector switch operator with attached contact blocks.

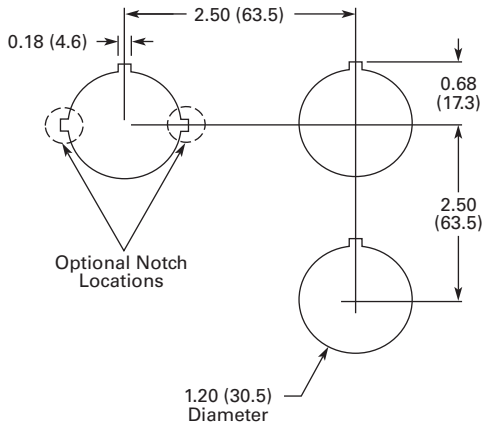


1.9

Pushbuttons and Indicating Lights

30.5 mm Watertight/Oiltight—HT800

1 Mounting Matrix and Minimum Panel Spacing Requirements



Legend Plates

