The logical choice for value, durability and reliability

The heavy-duty HT800 Series is a family of 30.5 mm pushbutton devices that includes momentary, illuminated and mushroomhead pushbuttons, selector switches, indicating lights and push-pull units. The HT800 devices have a familiar appearance found in most industrial applications and are suitable for replacement of several other manufacturers' 30.5 mm devices.

Unlike their closest competitor, the HT800 devices are all UL® (NEMA®) Type 4X rated for resistance to corrosion. In addition, all HT800 devices are shipped complete with grounding hardware to ensure compliance with electrical installation requirements. With most competitive devices, grounding kits have to be purchased separately.

Rugged metal construction, handsome appearance, extra features and competitive prices make the HT800 Series the logical choice for OEMs and panel builders looking for value, durability and reliability.

Features

- Die-cast metal housings create robust and heavy-duty devices that can endure repetitive and heavy-handed use in industrial environments
- Anodized aluminum mounting rings are corrosion-resistant and are UL (NEMA) Type 4X rated
- Double-V gaskets and O-rings seal operators against contaminants to maintain dust-tight, watertight and oil-tight panel ratings (UL Type 4, 12 and 13 rated)
- Pilot-duty UL Type A600 rated contact blocks handle inductive loads up to 0.35 power factor (PF) compared to general-purpose ratings that have only a 0.75 PF rating
- Contact blocks have clear transparent housings to allow easy visual inspection of contacts
- Contact blocks are color coded (white for NO and black for NC) to permit easy identification and troubleshooting
- Movable contacts in contact blocks have a "reliability" ridge to ensure solid electrical contact under a variety of electrical conditions
- Logic level contact blocks have gold-plated contacts to ensure circuit integrity down to 1 mA @ 5V
- Extended height bulbs provide side illumination of illuminated pushbuttons and indicating lights
- Contact blocks mount side-by-side and are stackable; they can be mounted in left and right positions or rotated to mount in upper and lower positions. This flexibility permits correct positioning and alignment of the terminals to line up with existing wires in retrofit applications
- Bright and long-lasting LEDs are available in six colors
- Selector switches can be converted from 2-position to 3-position and vice versa by rotating the internal cams—a nice option to have on the job site
- Knob and lever assemblies can be rotated every 22.5 degrees to suit various panel layouts

EATON

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Product range

Momentary pushbuttons

- Flush, extended and 40 mm diameter mushroomhead type
- Black, red or green

Illuminated pushbuttons

- With or without protective guards
- Incandescent or LED
- Full voltage or transformer type
- 24V or 120V
- Red, green, amber, clear, white, yellow and blue

Indicating lights

- Standard or PresTest type
- Incandescent or LED
- Full voltage or transformer type
- 24V or 120V
- Red, green, amber, clear, white, yellow and blue

Push-pull units

- Two-position maintained
- Mushroomhead type (40 mm)
- Black, red or green

Illuminated push-pull units

- Two-position maintained
- Mushroomhead type (40 mm)
- Incandescent or LED
- Full voltage or transformer type
- 24V or 120V
- Red or green

Selector switches

- Knob or lever type
- Maintained and spring-return versions
- Two, three and four positions
- Non-illuminated
- Black

Technical specifications and data

Mechanical Ratings

Description	Specification
Frequency of Operation	
Pushbuttons	6000 operations per hour
Selector switches	3000 operations per hour
Push-pull operators	3000 operations per hour
Mechanical Endurance/Life	
Pushbuttons	10 x 106 operations 6K Ops/Hr six—NO on left and six—NC on right
Selector switches	250 x 10 three operations 3K Ops/Hr two—NO on left and two—NC on right
Push-pull operators	250 x 10 three operations 3K Ops/Hr six—NO on left and six—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	6562 ft. (2999m)
Humidity	95% RH @ 60°C
Terminals	
Contact blocks	#6-32 posi-drive saddle damp type, 1x16 AWG to 2x15 AWG 12 in-lb max
Light units	#6-32 posi-drive saddle damp type, 1x22 AWG to 2x14 AWG 7 in-lb max

Electrical Ratings—HT800 Standard Contact Blocks, UL Rating

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

❶ Heavy-duty.
❷ Standard-duty.

UL A600 and P600 Ratings

	Vac 50 or 60 Hz				Vdc ❶		
Description	**120**	**240**	**480**	**600**	**125**	**250**	**600**
Make and emergency interrupting capacity (amperes)	60	30	15	12	1.1	0.55	0.2
Normal load break (amperes)	6	3	1.5	1.2	1.1	0.55	0.2
Thermal current (amperes)	10	10	10	10	5	5	5
Volt-amperes: Make and emergency interrupting capacity	7200	7200	7200	7200	138 ❷	138 ❷	138 ❷
Normal load break	720	720	720	720	138	138	138

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

❷ Maximum make or break volt-amperes at 300V or less.

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