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.

### 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

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.
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)
- Black, 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

<table>
<thead>
<tr>
<th>Description</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency of Operation</td>
<td></td>
</tr>
<tr>
<td>Pushbuttons</td>
<td>6000 operations per hour</td>
</tr>
<tr>
<td>Selector switches</td>
<td>3000 operations per hour</td>
</tr>
<tr>
<td>Push-pull operators</td>
<td>3000 operations per hour</td>
</tr>
<tr>
<td>Mechanical Endurance/Life</td>
<td></td>
</tr>
<tr>
<td>Pushbuttons</td>
<td>10 x 106 operations 6K Ops/Hr six—NO on left and six—NC on right</td>
</tr>
<tr>
<td>Selector switches</td>
<td>250 x 10 three operations 3K Ops/Hr two—NO on left and two—NC on right</td>
</tr>
<tr>
<td>Push-pull operators</td>
<td>250 x 10 three operations 3K Ops/Hr six—NO on left and six—NC on right</td>
</tr>
</tbody>
</table>

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

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

UL A600 and P600 Ratings

<table>
<thead>
<tr>
<th>Description</th>
<th>Vac 50 or 60 Hz</th>
<th>Vdc 1</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>120</td>
<td>240</td>
</tr>
<tr>
<td>Make and emergency interrupting capacity (amperes)</td>
<td>80</td>
<td>30</td>
</tr>
<tr>
<td>Normal load break (amperes)</td>
<td>6</td>
<td>3</td>
</tr>
<tr>
<td>Thermal current (amperes)</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>Volt-amperes: Make and emergency interrupting capacity</td>
<td>7200</td>
<td>7200</td>
</tr>
<tr>
<td>Normal load break</td>
<td>720</td>
<td>720</td>
</tr>
</tbody>
</table>

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

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