10 MILLION CYCLES, CONTACTLESS HALL EFFECT TECHNOLOGY

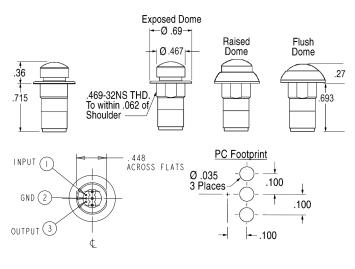
Designated the HP7 series, these momentary pushbutton switches utilize Hall Effect sensor technology for long life contactless switching, with 10 million cycles. Available in dusttight and moistureproof sealed configurations, these switches can also be watertight sealed to IP68S. The stylish dome-shaped pushbuttons are available in a choice of nine colors.

Case and bezel are precision-machined aluminum alloy, available with either a black or clear coat anodized finish. Three case and button styles are offered in raised dome, flush dome and exposed dome styles. PC pins or wire leads are standard, with value-added connectors available to specification.

This rugged switch is designed to withstand harsh environments while being subjected to high rates of actuation. Applications that require repeated "jogging" and other continuous operations are prime applications for the HP7 Hall Effect Switch. Examples of such can be found in material handling equipment such as loaders, lift trucks, bucket and shovel, and other applications where positioning of the load is critical.

Features:

- 10 million cycles
- Hall Effect sensor technology for long life
- Moistureproof & dusttight to IP64 or watertight to IP68S
- Stylish dome-shaped buttons in nine colors
- Momentary action
- Choice of termination styles
- Mechanical detent available for tactile feedback
- RoHS & WEEE compliant





| Standard Characteri | stics/Ratings: | | |
|--------------------------|---|-----------------|---------|
| MECHANICAL: | | | |
| Mechanical Life: | 10,000,000 cycles without detent | | |
| Button Travel: | 0.080 inches max | | |
| Overtravel: | 0.010 inches min | | |
| Operating Force: | Without detent: 16 oz +/- 8 oz With detent: 28 oz +/- 8 oz | | |
| Operating Point: | 0.040 inches +/- 0.010 | | |
| Electrical Life: | 10,000,000 cycles | | |
| ELECTRICAL RATINGS: | Rated at Vcc = 5V @ | 25°C Load = 1mA | (4–7ΚΩ) |
| Electrical | Units | Min | Мах |
| Supply Voltage | VDC | 4.5 | 24 |
| Reverse Output Voltage | VDC | N/A | 0.5 |
| Supply Current | mA | N/A | 9 |
| Continuous Output Curre | nt mA | N/A | 25 |
| Reverse Battery Protecti | on VDC | N/A | -30 |
| ELECTRONICS: | | | |
| Seal Integrity: | IP64 or IP68S | | |
| ENVIRONMENTAL: | | | |
| Operating Temp Range: | -40°C to +85°C | | |
| Storage Temp Range: | -55°C to +105°C | | |
| MATERIALS: | | | |
| Button: | Thermoplastic | | |
| Case: | Aluminum alloy | | |
| Mounting Hardware: | Hex nut & lockwasher | | |

