HALL EFFECT PUSHBUTTON SWITCHES

10 MILLION CYCLES, CONTACTLESS HALL EFFECT TECHNOLOGY

Case:

Mounting Hardware:

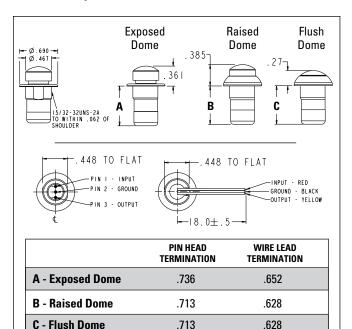
HP7 series momentary pushbuttons utilize Hall effect sensor technology and last up to 10 million cycles. These rugged pushbuttons withstand harsh environments and are available dusttight and moistureproof to IP64 or watertight to IP68S.

Exposed, raised and flush dome buttons come in nine color options. A mechanical detent option is available for tactile feedback. Case and bezel are precision-machined aluminum alloy with a black or clear coat anodized finish. PC pins or wire leads are standard; value-added connectors are available.

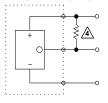
Prime applications are those requiring repeated "jogging" and other continuous operation. Examples include material handling equipment, such as loaders, lift trucks, bucket and shovel and other applications where positioning of the load is critical.

Features:

- Up to 10 million cycles
- Electronics sealed to IP64 or watertight to IP68S
- Three dome button styles in nine color options
- Momentary action
- Choice of termination styles
- Digital programmable output
- Supply voltage 4.5-24V
- Mechanical detent available for tactile feedback
- RoHS compliant



TYPICAL APPLICATION



A EXTERNAL PULL-UP RESISTER NOT INCLUDED WITH SWITCH (10KΩ TYPICAL)

Normally High option: Output is at supply voltage at rest. On actuation, output voltage goes to nearly ground and allows current to flow between ground and output wire.

Normally Low option: Output voltage goes to nearly ground and allows current to flow between ground and output wire. On actuation, output switches to supply voltage.



PUSHRUTT

Standard Characteristics/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 (4.7K Ω)							
Electrical	Units	Min	Max				
Supply Voltage	VDC	3.0	24				
Reverse Output Voltage	VDC	N/A	0.5				
Supply Current	mA	N/A	9	_			
Continuous Output Curre	nt mA	N/A	18				
Reverse Battery Protecti	on VDC	N/A	-15				
ELECTRONICS:							
Seal:	IP64 or IP68S						
ENVIRONMENTAL:							
Operating Temp Range:	-40°C to +85°C						
Storage Temp Range:	-60°C to +105°C						
MATERIALS:							
Button:	Thermoplastic						

HP7 PART NUMBER CODE									
HP7 – X	Х	Х	Х	Х	Х				
Dome Style	Action	Terminal Style	Seal Level	Case Color	Button Color				
DE. Exposed Dome DF. Flush Dome DR. Raised Dome	 Normally High Momentary Normally High Momentary with Detent Normally Low 	 3. 3 Pin Header 5. 18" Potted 26 AWG Wire Leads 	2. Dusttight 3. Watertight	1. Clear 2. Black	1. Red 2. Black 3. Orange 4. Yellow 5. Green 6. Blue				
	Momentary 4. Normally Low Momentary with Detent				7. Purple 8. Gray 9. White				

Aluminum alloy

Hex nut & lockwasher

Standard Characteristics/Ratings: