

HP7C

Contactless Hall effect momentary pushbutton



HP7C Hall effect momentary action pushbutton series is a lower-cost version of the HP7 series made with a thermoplastic case and a nylon button. The HP7C works well in industrial applications requiring high reliability and high rates of actuation. PC pins or wire leads are standard; value-added connectors are available to specification.

Product Features

- Up to 10 million cycles
- Raised dome button available in nine color options
- Momentary action
- PC pin or wire lead termination
- Digital programmable output
- Supply voltage 4.5-24V
- RoHS compliant

Standard Characteristics/Ratings:

MECHANICAL:

Mechanical Life:	10,000,000 cycles
Button Travel:	0.080 inches max
Overtravel:	0.010 inches min
Operating Force:	12 oz +/- 4 oz
Operating Point:	0.040 inches +/- 0.012
Electrical Life:	10,000,000 cycles

ELECTRICAL RATINGS: Rated at Vcc = 5V @ 25°C Load = 1mA (4.7KΩ)

Electrical	Units	Min	Max
Supply Voltage	VDC	4.5	24.0
Reverse Output Voltage	VDC	N/A	0.5
Supply Current (B=0, Vcc=5V, Io=0)	mA	2.3	4.2
Continuous Output Current	mA	N/A	20.0
Reverse Battery Protection	VDC		-15.0

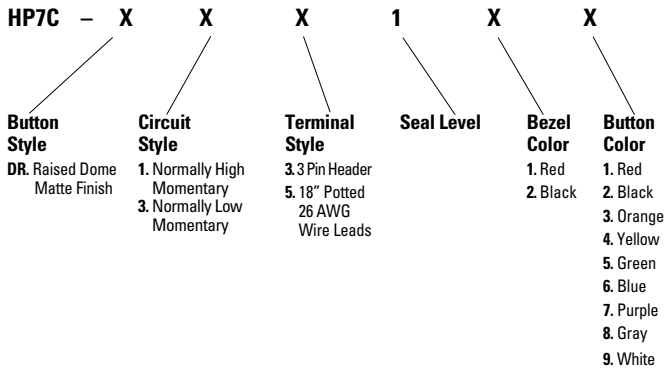
ENVIRONMENTAL:

Operating Temp Range:	-40°C to +85°C
Storage Temp Range:	-40°C to +105°C
Electronic Enclosure Design:	IP68S

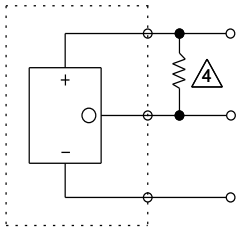
MATERIALS:

Button:	Thermoplastic
Case & Bezel:	Thermoplastic
Mounting Hardware:	Hex nut & lockwasher

HP7C PART NUMBER CODE



TYPICAL APPLICATION



⚠️ EXTERNAL PULL-UP RESISTOR 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.

