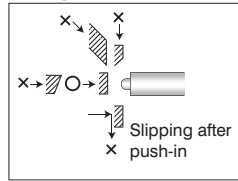


Precision Limit Switches

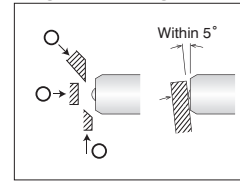
High Temperature Precision Limit Switches

- Operating up to 200°C
- Straight Touch or Angled/Sliding Touch
- Ball plunger model provides higher contact force ideal for indexing/positioning
- 10 micron (μm) repeat accuracy
- No movement differential
- No temperature drift

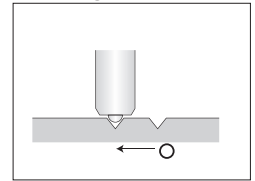
Straight Touch



Angled/Sliding Touch



Indexing Touch

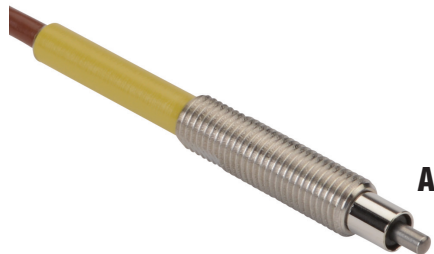


○ indicates correct target approach and orientation.
 × indicates approach and orientation that should be avoided.

High Temperature Precision Limit Switches Selection Chart

Part Number	Price	Actuator/Head Type*	Barrel Type	Barrel Diameter/Thread	Stroke	Switching Output	Contact Force	Sensor Dimension	Connection Type	Photo
Straight Touch										
CS067A-HT2	\$194.50	Ø 2mm plunger, SR 1.5 mm	Threaded	M6×0.75	2.8 mm	N.O.	1N	Figure 1	Cable, 2m length	A
Indexing/Angled/Sliding Touch										
BP060A-HT2	\$178.50	Ø 3mm ball	Threaded	M6×1.0	0.8 mm	N.O.	6N (Max. 13N)	Figure 2	Cable, 2m length	B

* Ø = diameter, SR = surface radius



Precision Limit Switches Dimensions

High Temperature: HT Series

Dimensions

mm [inches]

Figure 1
CS067A-HT2

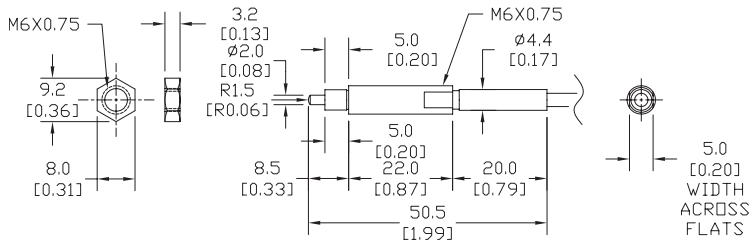
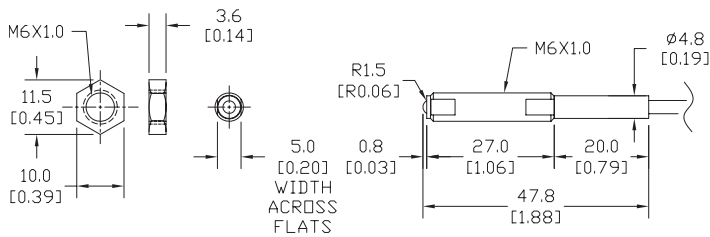


Figure 2
BP060A-HT2



See our website, www.AutomationDirect.com, for complete Engineering drawings.

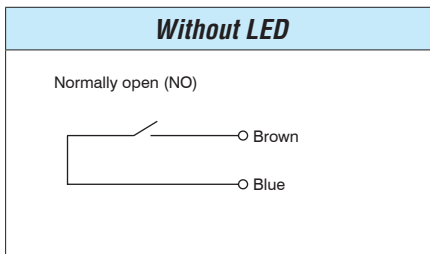
Precision Limit Switches

High Temp Precision Limit Switches Specifications			
	CS067A-HT2	BP060A-HT2	
Environmental			
Degree of Protection	IP65**	IP40**	
Temperature Range	Operating: 0–200°C (32–392°F) (Ice-free)		
Mechanical Ratings			
Enclosure Material	Stainless Steel		
Pretravel	0.3 mm		
Torque (for nuts on threaded barrels, set screws on smooth barrels)	4 N-m	See BP060A-HT2 Torque Limit Figure L1: 2.5 N-m L2: 5 N-m L3: 5 N-m	
Oscillation	10–55Hz total amplitude 1.5 for X, Y, Z each direction		
Impact	300 m/s ² for X, Y, Z each direction		
Electrical Ratings			
Contact Life	3 million operations		
Repeat Accuracy	Both On–Off, Off–On: 0.01 mm* **		
Recommended Minimum Operating Speed	10 mm/minute		
Contact Voltage	5–24VDC		
Steady Current Rating	10mA or less		
Max In-rush Current Rating	20mA		
Connection Type	Cable: 2m Heat resistant Ø2.8/2 cores		
Indicating	N/A		

* At operating speed 50-200 mm/minute. Operating speed slower than 10 mm/min is not recommended.

** At normal temperature (0–80°C [32–176°F]).

Circuit Diagrams



Torque Limits

BP060A-HT2

