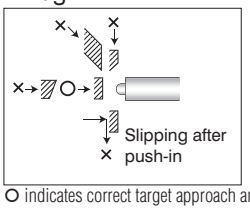
Precision Limit Switches

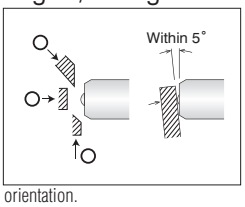
High Temperature Precision Limit Switches

- 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



O 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	$210.00	Ø 2mm plunger, SR 1.5 mm	Threaded	M6×0.75	2.8 mm	N.O.	1N	Figure 1	Cable, 2m length	A

** Ø = diameter, SR = surface radius*

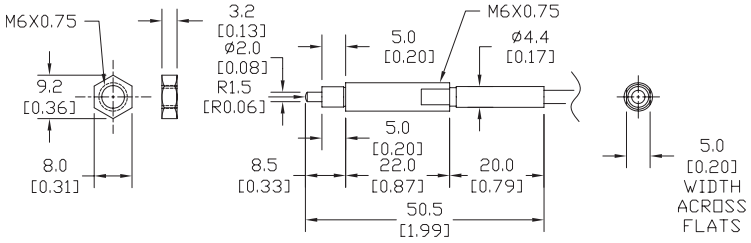
Precision Limit Switches Dimensions

High Temperature: HT Series

Dimensions

mm [inches]

Figure 1
CS067A-HT2



See our website www.AutomationDirect.com for complete engineering drawings.

Precision Limit Switches

High Temp Precision Limit Switches Specifications	
Environmental	
Degree of Protection	IP65**
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
Oscillation	10–55Hz total amplitude 1.5 for X, Y, Z each direction
Impact	300 m/s² 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

Without LED