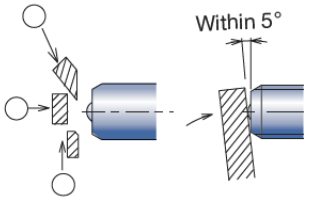
Precision Limit Switches

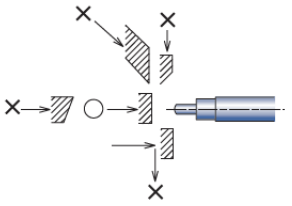
High Temperature: HT Series

- Plunger and ball plunger models
- Constructed using heat resistant parts and adhesives
- Heat resistant cable
- Operating temperature upper limit of 200°C [392°F]

High Temperature HT Series



O indicates correct target approach and orientation.
X 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***	***Connection Type***	***Drawing Link***
Straight/Precision Touch									
HT-CS067A		Ø 2mm plunger, SR 1.5 mm [0.059 in]	Threaded	M6×0.75	2.8 mm (0.110 in)	N.O.	1N	2m [6.56 ft] cable	PDF
Indexing/Angled/Sliding Touch/Ball Plunger									
HT-BP060A		Ø 3mm [0.118 in] ball	Threaded	M6×1.0	0.8 mm (0.031 in)	N.O.	Min 6N Max 13N	2m [6.56 ft] cable	PDF
Heat Resistant Stopper Bolt									
STS060A-HT2		1.5 mm [0.059 in] plunger, 3.4 mm [0.139 in] flat	Threaded	M6×1.0	0.7 mm (0.028 in)	N.O.	1N	2m [6.56 ft] cable	PDF
STM82A-HT2		Ø 3 mm [0.118 in] plunger with boot	Threaded	M10×0.75	0.3 mm (0.012 in)	N.O.	1N	2m [6.56 ft] cable	PDF

*** Ø = diameter, SR = surface radius**

HT-CS067A

HT-BP060A

STS060A-HT2

STM82A-HT2

Precision Limit Switches

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High Temperature Precision Limit Switches Specifications				
Part Number	***HT-CS067A***	***HT-BP060A***	***STS060A-HT2***	***STM82A-HT2***
Environmental				
Degree of Protection	IP65**	IP40**	IP40**	IP65**
Temperature Range	Operating: 0–200°C [32–392°F] (Ice-free)			
Mechanical Ratings				
Enclosure Material	Stainless Steel			
Pretravel	0.3 mm (0.012 in)	0.5 mm [0.020 in] from end face	0.3 mm [0.012 in] from stopping face	Middle of stroke
Torque (for nuts on threaded barrels, set screws on smooth barrels)	4 N·m	L1: 2.5 N•m (1.844 lb•ft) L2: 5 N•m (3.688 lb•ft) L3: 5 N•m (3.688 lb•ft)	– L1: 5 N•m (3.688 lb•ft) L2: 5 N•m (3.688 lb•ft)	– 10 N•m (7.376 lb•ft)
Oscillation	10–55 Hz 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	0.01 mm [0.00039 in] * **			
Recommended Minimum Operating Speed	10mm [0.394 in]/minute			
Contact Voltage	5-24 VDC			
Steady Current Rating	10mA or less			
Max In-rush Current Rating	20mA			
Connection Type	Cable: 2m [6.56 ft] heat-resistant Ø 2.8 2 cores, 24AWG	Cable: 2m [6.56 ft] heat-resistant Ø 2.8 2 cores, 24AWG	Cable: 2m [6.56 ft] heat-resistant Ø 2.8 2 cores, 26AWG	Cable: 2m [6.56 ft] heat-resistant Ø 2.8 2 cores, 26AWG
Indicating	N/A			

*** At operating speed 50-200 mm [1.97-7.87 in]/minute. Operating speed slower than 10mm [0.39 in]/min is not recommended.**
**** At normal temperature (0-80°C [32-176°F]).**

Circuit Diagrams

Normally open (NO)