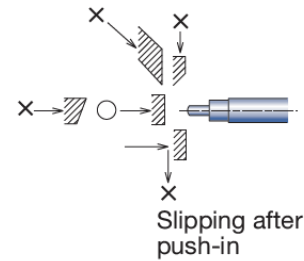
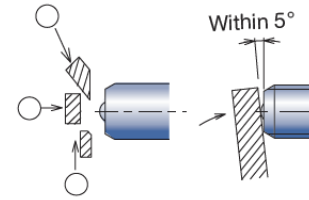


# Precision Limit Switches

## 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



○ 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	Connection Type	Dimensional Drawing
<b>Straight/Precision Touch</b>									
CS067A-HT2		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
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
<b>Indexing/Angled/Sliding Touch/Ball Plunger</b>									
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
<b>Heat Resistant Stopper Bolt</b>									
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



# Precision Limit Switches

## High Temperature: HT Series

High Temperature Precision Limit Switches Specifications					
	CS067A-HT2	HT-CS067A	HT-BP060A	STS060A-HT2	STM82A-HT2
<b>Environmental</b>					
Degree of Protection	IP65**	IP65**	IP40**	IP40**	IP65**
Temperature Range	Operating: 0–200°C [32–392°F] (Ice-free)				
<b>Mechanical Ratings</b>					
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	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/s <sup>2</sup> for X, Y, Z each direction				
<b>Electrical Ratings</b>					
Contact Life	3 million operations				
Repeat Accuracy	Both On–Off, Off–On: 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, 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)

