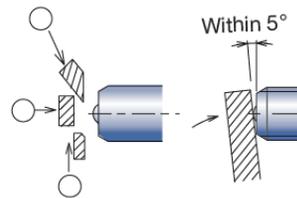


Precision Limit Switches

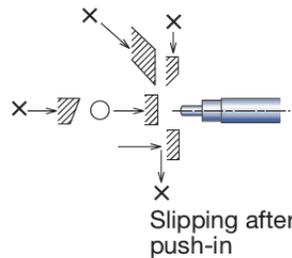
High Temperature: HT Series

- 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 | \$235.00 | Ø2mm 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 | \$214.00 | 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 | \$196.00 | 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 | \$192.00 | 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 Specifications

| 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 to 200°C [32 to 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/s ² 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 to 80°C [32 to 176°F]).

Circuit Diagrams

Normally open (NO)

