

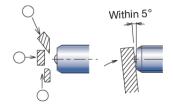
METROL Precision Limit Switches

High Temperature: HT Series Limit Switches

Features

- 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 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 1.5mm	Threaded	M6×0.75	2.8mm	(1) N.O.	1N	Cable 2m [6.56ft]	PDF	
Indexing/Angled/Sliding Touch/Ball Plunger										
<u>HT-BP060A</u>	\$214.00	Ø 3mm ball plunger	Threaded	M6×1.0	0.8mm	(1) N.O.	6-13N	Cable 2m [6.56ft]	PDF	
Heat Resistant Stopper Bolt										
STS060A-HT2	\$196.00	1.5mm plunger 3.4mm flat	Threaded	M6×1.0	0.7mm	(1) N.O.	1N	Cable 2m [6.56ft]	PDF	
STM82A-HT2	\$192.00	Ø 3mm plunger with boot	Threaded	M10×0.75	0.3mm	(1) N.O.	1N	Cable 2m [6.56ft]	PDF	

^{*} Ø = diameter, SR = surface radius





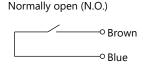
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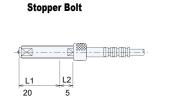
High Temperature Limit Switches Specifications								
Part Number	<u>HT-CS067A</u>	<u>HT-BP060A</u>	<u>STS060A-HT2</u>	STM82A-HT2				
Environmental								
Degree of Protection	IP65**	IP40**	IP40**	IP65**				
Temperature Range Operating: 0 to 200°C [32 to 392°F] (Ice-free)								
Mechanical Ratings								
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				
Vibration	10–55 Hz total amplitude 1.5 for X, Y, Z each direction							
Shock	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	50mm [1.96in]/minute							
Contact Voltage		5-24 VDC						
Steady Current Rating	rent Rating 10mA or less							
Max In-rush Current Rating	20mA							
Connection Type		heat-resistant Ø 2.8 , 24AWG	Cable: 2m [6.56ft] heat-resistant Ø 2.8 2 cores, 26AWG					
Indicating	N/A							

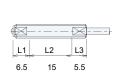
^{*} At operating speed 50-200 mm [1.97-7.87 in]/minute. Operating speed slower than 10mm [0.39in]/min is not recommended. ** At normal temperature (0 to 80°C [32 to 176°F]).

Circuit Diagrams

Torque Limits







Ball Plunger

Tightening Torque for Case Screws and Nuts								
Applicable Models		L1		L2	L3			
	Length	Tightening Torque	Length	Tightening Torque	Length	Tightening Torque		
HT-CS067A	6.5mm	4 N•m [2.95 lb•ft]	_	_	_	_		
<u>HT-BP060A</u>	6.5mm	2.5 N•m [1.84 lb•ft]	15 mm	5 N•m [3.68 lb•ft]	5.5mm	5 N•m [3.68 lb•ft]		
STS060A-HT2	20mm	5 N•m [3.68 lb•ft]	5mm	5 N•m [3.68 lb•ft]	_	_		
STM82A-HT2	6.5mm	10 N•m [7.376 lb•ft]	_	_	_	_		

Caution: Use the lower torque (i.e. torque corresponding to L1 and L3) while tightening the bolt between lengths L1 and L2 or L2 and L3 in the picture. Please make sure to use a locknut if the bolt is likely to shift in position due to the vibrational impacts.