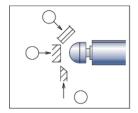
Precision Limit Switches

Sliding Angled Offset Touch Limit Switches

- Metal and plastic hemisphere actuators
- 5 micron (µm) repeat accuracy
- Stainless steel housing

Sliding Angled Offset Touch



O indicates correct target approach and orientation

X indicates approach and orientation that should be avoided.

Sliding Angled Offset Touch Limit Switches Selection Chart									
Part Number	Price	Drawing Link	Actuator/ Head Type*	Barrel Type	Barrel Diameter/Thread*	Stroke	Switching Output	Contact Force	Connection Type
Sliding Angled Offset Touch									
CSHP085A-L		PDF	Ø 4.7 mm SR 3mm	Threaded	M8×0.5	2.8 mm (0.110 in)	N.O.	1N	2m (6.56 ft) cable
CSHP085B-L		PDF	Ø 4.7 mm SR 3mm	Threaded	M8×0.5	2.8 mm (0.110 in)	N.C.	1N	2m (6.56 ft) cable
CSH121A-AL		PDF	Ø 10 hemisphere	Threaded	M12x1	2.8 mm (0.110 in)	N.O.	1.5 N	2m (6.56 ft) cable
CSH121B-AL		PDF	Ø 10 hemisphere	Threaded	M12x1	2.8 mm (0.110 in)	N.C.	1.5 N	2m (6.56 ft) cable
CSH121A-APL		PDF	Ø 10 hemisphere, plastic	Threaded	M12x1	2.8 mm (0.110 in)	N.O.	1.5 N	2m (6.56 ft) cable
CSH121B-APL		PDF	Ø 10 hemisphere, plastic	Threaded	M12x1	2.8 mm (0.110 in)	N.C.	1.5 N	2m (6.56 ft) cable

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











Precision Limit Switches

Sliding Angled Offset Touch Limit Switches

Sliding Angled Offset Touch Limit Switches Specifications								
Series	СЅНР	сѕн						
Environmental								
Degree of Protection	IP67	IP65						
Temperature Range	Operating: 0-80°C (32-176°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 (2.95 lb•ft)	12 N•m (8.85 lb•ft)						
Oscillation	10–55Hz total amplitude 1.5 for X, Y, Z each direction							
Impact	300 m/s² for X, Y, Z each direction							
Repeat Accuracy	0.005 mm (5 micron [µm])							
Recommended Minimum Operating Speed	10 mm (0.394 in)/minute							
Electrical Ratings								
Contact Life	Fe 10 million operations							
Contact Voltage	ge 5-24VDC							
Steady Current Rating	10mA or less							
Max In-rush Current Rating	10mA (limit current to protect LED indicator)							
Connection Type	Cable: 3m, oil resistant Ø2.8/2 cores, Tensile strength 30N (6.74 lbf), minimum bending R7, 2-26AWG							
Indicating	-L: LED indicator (mounted in cable 120mm from the switch)							

^{*} At operating speed 50-200 mm/minute. Operating speed slower than 10mm/min is not recommended.

Circuit Diagrams

