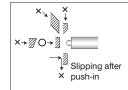
METROL Precision Limit Switches

Precision Straight Touch Limit Switches

Features

- Ultra-small design (M5 or Ø5)
- 3 micron (μm) repeat accuracy
- No movement differential
- Dustproof / water-resistant (IP67) models available
- Stainless steel housing
- · Metal bearing

Straight Touch

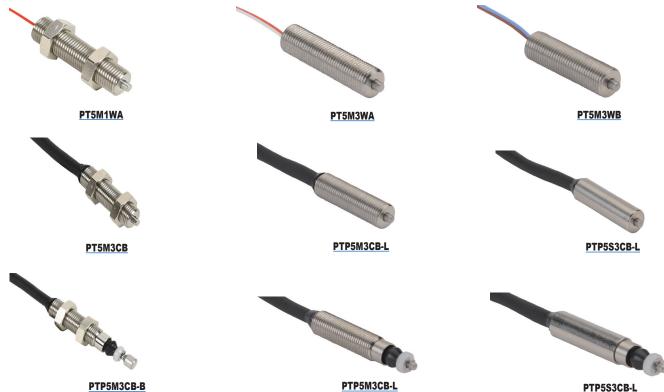


O indicates correct target approach and orientation. X indicates approach and orientation that should be avoided.

Precision Straight Touch Limit Switches Selection Chart										
Part Number	Price	Drawing Link	Actuator/Head Type*	Barrel	Barrel Diameter/ Thread*	Stroke	Switching Output	Contact Force	Connection Type	
<u>PT5M1WA</u>	\$93.00	PDF	Ø 1.5mm plunger, SR 2mm		M5×0.5	1.5mm	(1) N.O.	0.5N	Core wire, 0.5m [1.6ft]	
PT5M3WA	\$72.00	PDF	Ø 1.5mm plunger, SR 2mm			1.5mm	(1) N.O.	0.5N		
PT5M3WB	\$72.00	PDF	Ø 1.5mm plunger, SR 2mm	Threaded		1.5mm	(1) N.C.	0.5N		
<u>PT5M3CB</u>	\$85.00	<u>PDF</u>	Ø1.5mm plunger, SR 2mm			1.5mm	(1) N.C.	0.5N	-	
PT5M3CB-L	\$86.00	PDF	Ø 1.5mm plunger, SR 2mm			1.5mm	(1) N.C.	0.5N		
PT5S3CB-L	\$81.00	<u>PDF</u>	Ø 1.5mm plunger, SR 2mm	Smooth	Ø 5 mm	1.5mm	(1) N.C.	0.5N	Cable,	
PTP5M3CB-B	\$101.00	PDF	Ø 1.5mm plunger, Ø 3mm flat	Threaded	M5+0 5	1.5mm	(1) N.C.	0.8N	2m [6.5ft]	
PTP5M3CB-L	\$94.00	PDF	Ø 11.5mm plunger, SR 2mm	Threaded	M5×0.5	1.5mm	(1) N.C.	0.8N		
PTP5S3CB-L	\$88.00	PDF	Ø 1.5mm plunger, SR 2mm	Smooth	Ø 5 mm	1.5mm	(1) N.C.	0.8N		

* Ø = diameter, SR = surface radius

-L: LED indicator (mounted in cable 120mm from the switch)



PTP5S3CB-L

METROL Precision Limit Switches

Precision Straight Touch Limit Switches Specifications							
Series	РТ5х3хх	РТР5х3СВ					
Environmental							
Degree of Protection	IP40	IP67					
Temperature Range	Operating: 0 to 80°C [32 to 176°F] (Ice-free)						
Mechanical Ratings							
Enclosure Material	303 Stainless Steel						
Pretravel	0* (<u>PT5M3WA</u> and <u>PT5M1WA</u> about 0.3 mm)						
Torque (for nuts on threaded barrels, set screws on smooth barrels)	1 N·m						
Vibration	10–55 Hz total amplitude 1.5 for X, Y, Z each direction						
Shock	300 m/s ² for X, Y, Z each direction						
Electrical Ratings							
Contact Life	3 million operations						
Repeat Accuracy	Both On–Off, Off–On: 0.003 mm**						
Recommended Minimum Operating Speed	50 mm/minute						
Contact Voltage	5–24 VDC						
Steady Current Rating	10mA or less						
Max In-rush Current Rating	20mA without LED indicator, 10mA with LED indicator						
Connection Type	PTxxxWx: Core-wire cable, 0.5m (×2) Oil resistant Ø 0.6 Tensile strength 15N. PTxxxCB: Cable, 2m Oil-resistant Ø2.8/2 cores Tensile strength 30N, Minimum bending R7.						
Indicating	-L models: LED indicator (mounted in cable 120mm from the switch)						

* Adjust the installed location of the switch by the signal switching point. ** At operating speed 50-200 mm/minute. Operating speed slower than 10 mm/min is not recommended.

Circuit Diagrams

