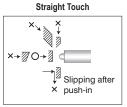
## **Precision Limit Switches**

## **Precision Touch Limit Switches**

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

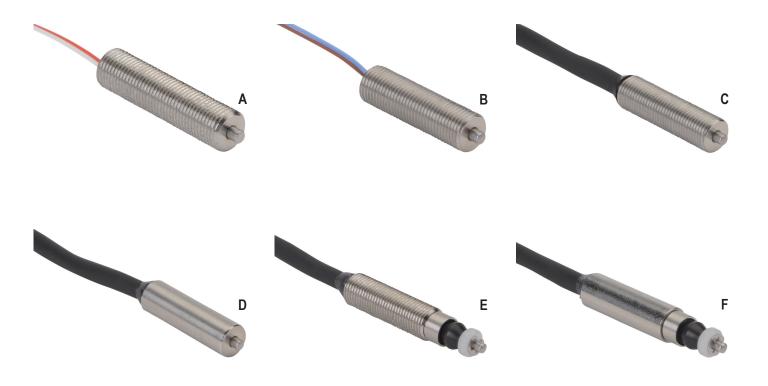


O indicates correct target approach and orientation. X indicates approach and orientation that should be avoided.

Precision Touch Limit Switches Selection Chart										
Part Number	Price	Drawing Link	Actuator/Head Type*	Barrel	Barrel Diameter/ Thread*	Stroke	Switching Output	Contact Force	Connection Type	Photo
Straight Touch										
PT5M3WA	\$72.00	PDF	Ø 1.5 mm plunger, SR 2mm	Threaded	M5×0.5	- 1.5 mm	N.O.	0.5 N	Core wire, 0.5 m length	Α
PT5M3WB	\$72.00	PDF					N.C.			В
PT5M3CB-L	\$86.00	PDF							Cable, 2m length	С
PT5S3CB-L	\$81.00	PDF		Smooth	Ø 5 mm					D
PTP5M3CB-L	\$94.00	PDF		Threaded	M5×0.5			0.8 N		Е
PTP5S3CB-L	\$88.00	PDF		Smooth	Ø 5 mm					F

<sup>\*</sup> Ø = diameter, SR = surface radius

<sup>-</sup>L: LED indicator (mounted in cable 120mm from the switch)



## **Precision Limit Switches**

Precision Touch Limit Switches Specifications								
Series	PT5x3xx	PTP5x3CB						
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> : about 0.3 mm)							
Torque (for nuts on threaded barrels, set screws on smooth barrels)	1 N·m							
Oscillation	10–55 Hz total amplitude 1.5 for X, Y, Z each direction							
Impact	300 m/s² 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	10 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 Ø0.6 Tensile strength 15N. PTxxxCB: Cable, 2m Oil-resistant Ø2.8/2 cores Tensile strength 30N, Minimum bending R7							
Indicating	-L: LED indicator (mounted in cable 120mm from the switch)							

## **Circuit Diagrams**

Without LED	With LED		
Normally open (N.O.)  Red  White	Normally open (N.O.)  Red +  White -  LED Normally Off		
Normally closed (N.C.)  OBrown OBlue	Normally closed (N.C.)  Brown +  Blue -  LED Normally On		

www.automationdirect.com **Limit Switches** tLSW-46

<sup>\*</sup> 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.