

METROL Precision Limit Switches

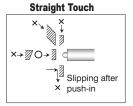
Mini Stopper Precision Limit Switches

Overview

Precision stopper limit switches incorporate a mechanical stop and a limit switch function in a single switch, eliminating the need for a separate stop.

Features

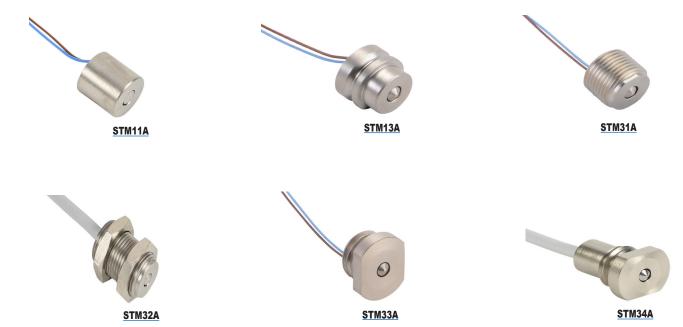
- Mini Stopper switch
- · Provides higher contact force ideal for indexing/positioning
- 10 micron (µm) repeat accuracy
- No movement differential
- No temperature drift



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

Mini Stopper Precision Limit Switches Selection Chart									
Part Number	Price	Drawing Link	Actuator/Head Type*	Barrel Type	Barrel Diameter/ Thread	Stroke	Switching Output	Contact Force	Connection Type
STM11A	\$36.00	PDF	Ø 3mm plunger, 8mm flat	Smooth	Ø8	0.5mm	(1) N.O.	0.8N	Core wire, 0.5m [1.6ft]
STM13A	\$47.50	PDF	Ø 3mm plunger, 8mm flat	Smooth	Ø10	0.5mm		0.8N	
STM31A	\$49.00	PDF	Ø 3mm plunger, 8mm flat	Threaded	M10×0.75	0.5mm		0.8N	
STM32A	\$43.00	PDF	Ø 3mm plunger, 8mm flat	Threaded	M10×0.75	0.5mm		0.8N	Cable, 2m [6.5ft]
STM33A	\$52.00	PDF	Ø 3mm plunger, 13mm flat	Threaded	M10×1.5	0.5mm		0.8N	Core wire, 0.5m [1.6ft]
STM34A	\$44.00	PDF	Ø 3mm plunger, 8mm flat	Threaded	M10×1.5	0.5mm		0.8N	Cable, 2m [6.5ft]
STM63A	\$62.00	PDF	Ø 3mm plunger with boot, Ø 2.5mm	Smooth	Ø11	0.3mm		1N	Core wire, 0.5m [1.6ft]
STM81A	\$66.00	PDF	Ø 3mm plunger with boot, Ø 2.5mm	Threaded	M10×0.75	0.3mm		1N	
STM83A	\$62.00	PDF	Ø 3mm plunger with boot, Ø 2.5mm	Threaded	M10×1.5	0.3mm		1N	
STM14A-L	\$66.00	PDF	Ø 3mm plunger, 8mm flat	Smooth	Ø10	0.5mm		0.8N	Cable, 2m [6.5ft]
STM36A-L	\$51.00	PDF	Ø 3mm plunger, 4.5mm flat	Threaded	M10×0.75	0.5mm		0.8N	
STM64A-L	\$78.00	PDF	Ø 3mm plunger with boot, Ø 2.5mm	Smooth	Ø11	0.3mm		1N	
STM32A-L	\$72.00	PDF	Ø 3mm plunger, 8mm flat	Threaded	M10×0.75	0.5mm		0.8N	
STM82A-L	\$84.00	PDF	Ø 3mm plunger with boot, Ø 2.5mm	Threaded	M10×0.75	0.3mm		1N	
STM34A-L	\$73.00	PDF	Ø 3mm plunger, 13mm flat	Threaded	M10×1.5	0.5mm		0.8N	
STM84A-L	\$88.00	<u>PDF</u>	Ø 3mm plunger with boot, Ø 2.5mm	Threaded	M10×1.5	0.3mm		1N	

^{*} Ø = diameter



METROL Precision Limit Switches

Mini Stopper: STM Series





















www.automationdirect.com **Limit Switches** tLSW-69

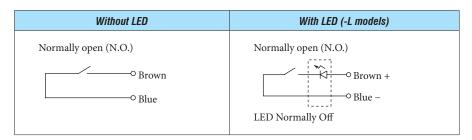


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Mini Stopper Precision Limit Switches Specifications							
Series	STM						
Environmental							
Degree of Protection	IP44 (<u>STM11A, STM13A, STM31A, STM32A, STM33A, STM34A, STM14A-L, STM32A-L, STM34A-L)</u> IP67 (<u>STM63A STM81A, STM83A, STM64A-L, STM82A-L, STM84A-L)</u>						
Temperature Range	Operating: 0 to 80°C [32 to 176°F] (Ice-free)						
wMechanical Ratings							
Enclosure Material	Stainless Steel						
Torque (for nuts on threaded barrels, set screws on smooth barrels)	10Nm						
Vibration	10–55Hz total amplitude 1.5 for X, Y, Z each direction						
Shock	300 m/s² for X, Y, Z each direction						
Withstand Load	3000N						
Repeat Accuracy	Both On→Off, Off→On/ 0.01 (range) (At operating speed 50-200mm/min) *						
Recommended Minimum Operating Speed	50mm [1.96in]/minute						
Electrical Ratings							
Contact Life	10 million (No bungle caused by vibration and use under contact rating)						
Impact Resistance	0.2J						
Contact Voltage	5–24VDC						
Steady Current Rating	10mA or less						
Max In-rush Current Rating	20mA without LED indicator, 10mA with LED indicator						
Connection Type	Standard length 2m or 0.5 m Oil resistant 2.8 / 2 cores, Tensile strength 30N, minimum bending R7						
Indicating	-L models: LED indicator (mounted in cable 120mm from the switch)						

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

Circuit Diagrams



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