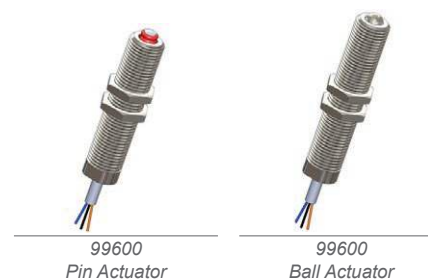


› 2-in-1 Position Sensor


High Accuracy Mechanical Sensor

99600 Series

- › M8 threaded metal housing
- › Pin or ball actuator
- › No hysteresis
- › Detects 2 positions
- › Special adaptations upon request



Selection Guide		
Contact Configuration	Pin Actuator	Ball Actuator
NC+NO	99600001	99600004
NC	99600002	99600005
NO	99600003	99600006
	Pin Actuator	Ball Actuator

General Characteristics		
Certification	CE  (UL in progress)	
Termination	Cable	
Cable length	2 m	
Cable material	PVC	
Actuator	Pin	Ball
Form factor	M8	

Mechanical Characteristics		
Contact distance	NC+NO, 0.5 mm NC only, 0 mm NO only, 0.5 mm	
Operating Force max (OF)	Max 1 N to open NC contact Max 1.6 N to close NO contact	
Hysteresis	0 mm	
Repeatability	< 5 µm	
Pre-Travel	0 mm for NC contact 0.5 mm for NO contact	
Over-Travel	2 mm after NC opening	1.7 mm after NC opening

Electrical Characteristics		
Max DC voltage	30 V _{DC}	
Max DC Current	100 mA	

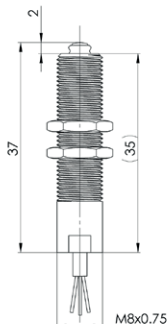
Environmental Characteristics		
Degree of Protection	IP67	
Temperature	-20 °C to +105 °C with PVC cable (-40 °C to +130 °C) with silicone cable upon request	
Mechanical Life	10 000 000 cycles	

Pin Actuator

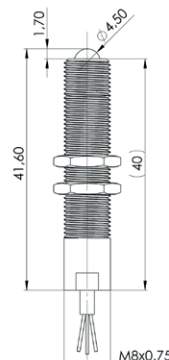
Ball Actuator

Dimensions (mm)

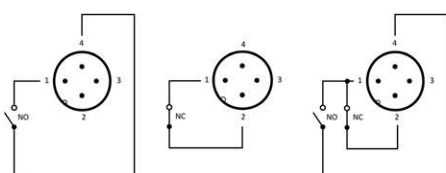
Form factor M8 - Pin actuator



Form factor M8 - Ball actuator

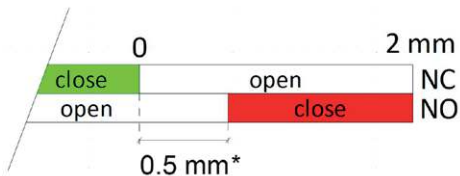


Connection



Sensor contact	Cable option wire color	Connector option pin number
Common	brown	1
NC	black	2
NO	blue	4

Principles



*Contact distance can be customized upon request

The sensors are built with a NC and NO contact. There is no pre-travel of the pin plunger to open the NC contact. The NO closes after a customized length of travel between 0.3 mm to 1.5 mm.

Special adaptations

Our dedicated design engineering experts have access to the the latest design tools and test facilities. Our DesignLab is ready to collaborate with you to adapt the product to provide the solution you need:

- > Cable length 0.5 m, 1 m or 2 m
- > M8 and M12 threaded housing
- > Actuator Pin, Ball, Hard Metal Pin or Telescopic
- > Silicone cable (-40 °C to +130 °C) upon request



About Microprecision Electronics SA

Microprecision Electronics SA is a Swiss manufacturer of electromechanical components for more than 60 years. It specialises in highly precise snap-action switches, sensors and custom-engineered solutions for industrial and challenging applications. Microprecision supplies to industrial and building automation, elevation systems, machinery, marine and medical industries, in applications where quality, precision and reliability are of utmost importance.

Microprecision Electronics is a company of Crouzet

Warning:

The product information contained in this catalogue is given purely as information and does not constitute a representation, warranty or any form of contractual commitment. Crouzet Automatismes SAS and its subsidiaries reserve the right to modify their products without notice. It is imperative that we should be consulted over any particular use or application of our products and it is the responsibility of the buyer to establish, particularly through all the appropriate tests, that the product is suitable for the use or application. Under no circumstances will our warranty apply, nor shall we be held responsible for any application (such as any modification, addition, deletion, use in conjunction with other electrical or electronic components, circuits or assemblies, or any other unsuitable material or substance) which has not been expressly agreed by us prior to the sale of our products.