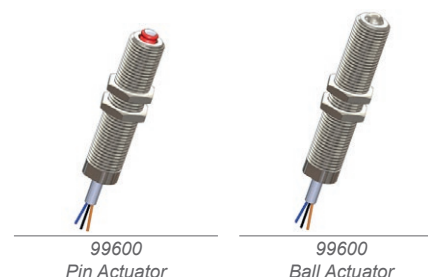


# › 2-in-1 Position Sensor


## 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	<b>99600001</b>	<b>99600004</b>
NC	<b>99600002</b>	<b>99600005</b>
NO	<b>99600003</b>	<b>99600006</b>
	<b>Pin Actuator</b>	<b>Ball Actuator</b>

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 <sub>DC</sub>	
Max DC Current	100 mA	

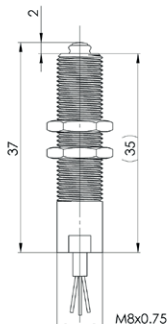
Environmental Characteristics		
Degree of Protection	IP67	
Temperature	-20 °C to +105 °C with PVC cable (-40 °C to +130 °C) with silicone cable upon request	
Mechanical Life	10 000 000 cycles	

Pin Actuator

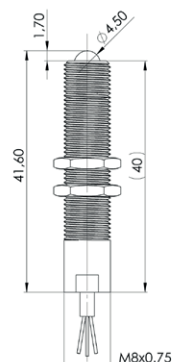
Ball Actuator

Dimensions (mm)

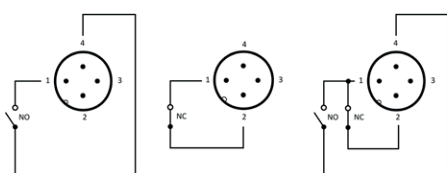
Form factor M8 - Pin actuator



Form factor M8 - Ball actuator

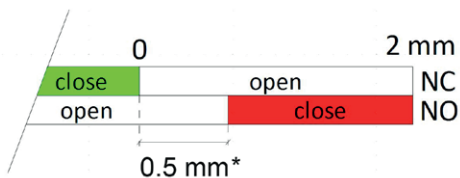


Connection



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

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