

# 9600-series

## Linear position sensor 12-38mm



Designed for a variety of miniature-sized accurate position feedback applications, the 9600 Series Linear Position Sensor Module is ideally suited for use where reliability in a harsh operating environment is a primary consideration.

Use in industrial, vehicular, appliance, machine tool, and robotic applications is benefited by the unit's features that include high temperature-stable materials, solderable terminal tabs suitable for use with 2,8 mm PDI styled crimped wiring lugs, and a durable spring-loaded design to returns shaft to extended position.

The 9600 Series is available in three standard strokes and provides excellent long life (up to 5 000 000 cycles); resistance, voltage and linearity characteristics.

- Small
- Suitable for installation
- Return spring

### SPECIFICATIONS

<b>Output</b>	Potentiometer
<b>Independent linearity</b>	± 2% of active stroke
<b>Resolution</b>	Near infinite
<b>Repeatability</b>	< 0,013 mm
<b>Wiper current</b>	
<b>Recommended</b>	< 0,1 µA
<b>Temperature</b>	
<b>Operation</b>	-40°C ... +135°C
<b>Material</b>	
<b>Housing</b>	Plastic
<b>Rod</b>	Plastic
<b>Vibration</b>	15G, 50-1000Hz, 2h each plain
<b>Shock</b>	50 G
<b>Protection class</b>	IP 55
<b>Stop force</b>	100 N
<b>Spring return force</b>	< 4 N
<b>Life time</b>	1x10 <sup>6</sup> movements

<b>Model</b>	<b>9605</b>	<b>9610</b>	<b>9615</b>	
<b>Total electric stroke A (mm)</b>	12,7	25,4	38,1	
<b>Active electric stroke G (mm)</b>	10,0	22,8	35,6	
<b>Mechanical stroke B ±0,4 (mm)</b>	14,2	26,9	39,6	
<b>Total resistance ±25%(kΩ)</b>	1,7	3,4	5,1	
<b>Best practical linearity (%)</b>	±1,0	±0,5	±0,35	
<b>Power rating at 70°C (W)</b>	0,25	0,5	0,75	
<b>Max suply voltage at 70 °C (V)</b>	18	35	40	
<b>Housing lenght C ±0,4 (mm)</b>	26,9	39,6	52,3	
<b>Terminal spacing</b>	<b>D (mm)</b>	7,6	12,7	20,3
	<b>E (mm)</b>	5,1	12,7	17,8
<b>Fully extended lenght F ±0,4 (mm)</b>	20,6	33,3	46,0	

2016-04-19, specifications subject to change without notice

ISO 9001  
BUREAU VERITAS  
Certification



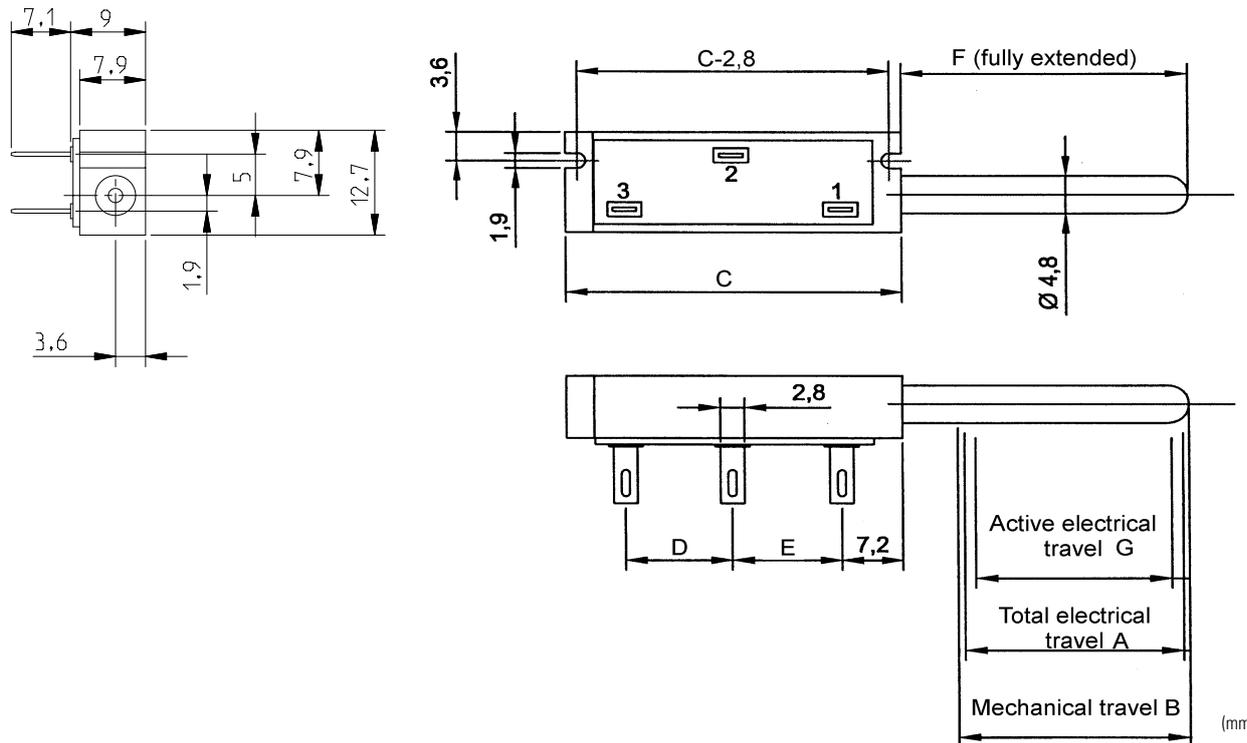
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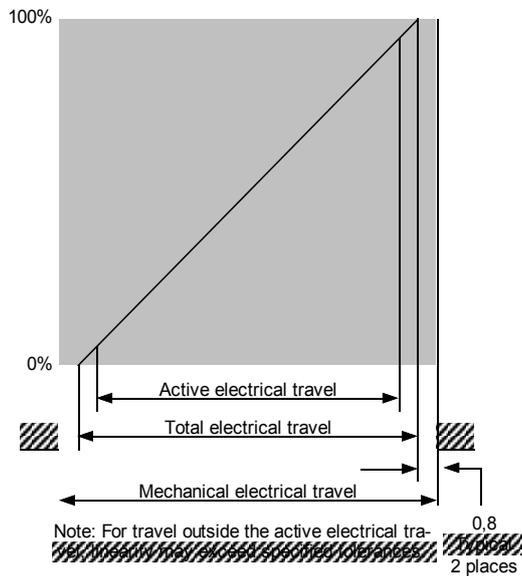
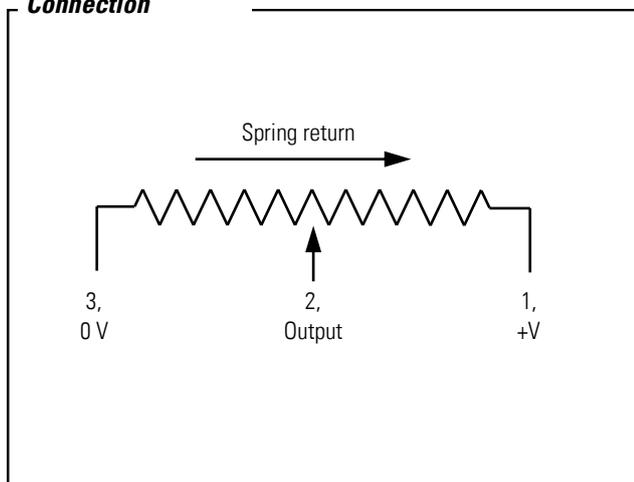
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### Connection



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