CONDUCTIVE PLASTIC HOLLOW SHAFT SENSOR PGL 60

The hollow shaft potentiometer in conductive plastic designed for analogue measurements consists of a non-rotating aluminium housing and a ball-bearing-mounted hollow shaft. The angle of rotation is 320°.

Customer-specific requirements are available upon request.

Advantages
– Measuring range 320°
– Long service life
– High resolution, precision, and measurement accuracy
– Ball-bearing-mounted hollow shaft

Application Examples
– Recording the axle position robotics
– Measuring the steering angle in special-purpose vehicles
– Servo systems



General Data	
Sensor technology	Potentiometric
Type of contact	Wiper
Sensor type	Absolute measurement
Curcuit	As Voltage divider

Electrical Data	
Measuring range	320°
Independent linearity	± 2 %, optionally ± 0,25 %
Resolution	Analog, almost infinite
Resistance range (Rn)	10 kΩ
Resistance tolerance	± 20 %
Max. Wiper current	5 mA in case of malfunction
Wiper load	> 100x Rn
Insulation resistance	10 GΩ at 500 VDC
Dielectric strength	1,000 VAC
Supply voltage	5 VDC typ., 3 to 30 VDC possible
Output signal	Analog 0 to 100 % of voltage supply

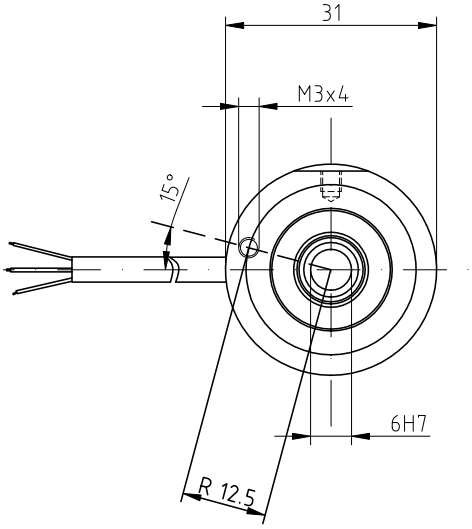
Mechanical Data	
Dimensions	See drawing
Bearing	Ball bearing
Lifespan	25 million cycles
Mounting	Thread M3

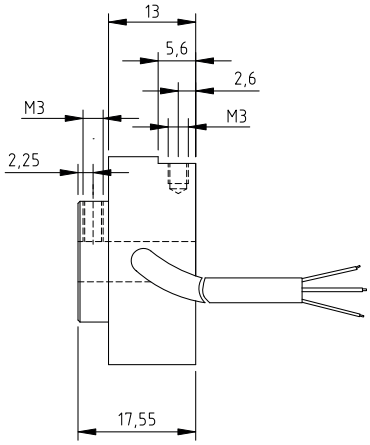
Environmental Data	
Operating temperature	-25 °C to +85 °C
Protection class acc. to IEC 60529	IP 63
EMC	Uncritical
ESD	Uncritical

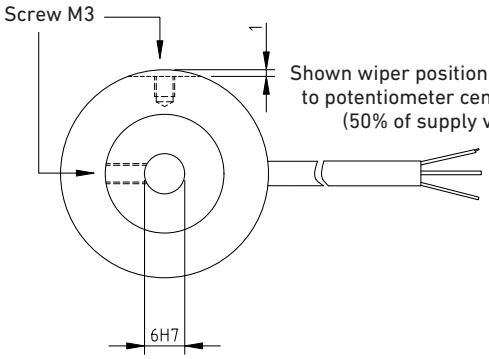
Material	
Housing	Aluminium anodised

Electrical Connection	
	Flexible cable, length approx. 1 m

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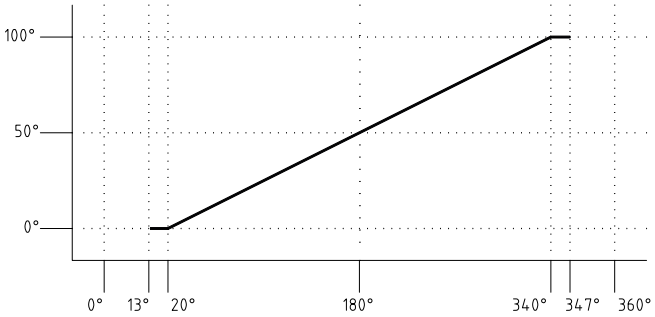




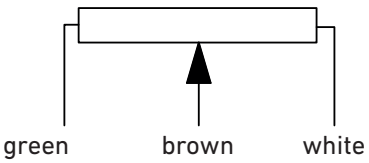


All dimensions in mm

Output signal



Electrical Connection



Sample order

Article No.	Product name	Measuring range	Linearity	Electrical Connection
H060502320	PGL 60	320°	± 2%	Cable
H060502354	PGL 60	320°	± 0.25 %	Cable

Metallux cannot picture the customer's operating and application conditions and the customer's existing environmental influences.
We therefore recommend that you carry out your own investigations into the planned use of the products under the actual operating conditions.

We continuously improve our products and also update our data sheets regularly. In this respect, there may be changes in the specification.
These changes will apply to orders received by us from the time of the update, unless otherwise agreed.

Our products comply with Directive 2011/65/EU (RoHS) including Directive 2015/863/EU and Regulation (EC) No. 1907/2006 (REACH).