

# CONDUCTIVE PLASTIC HOLLOW SHAFT SENSOR PGL 60



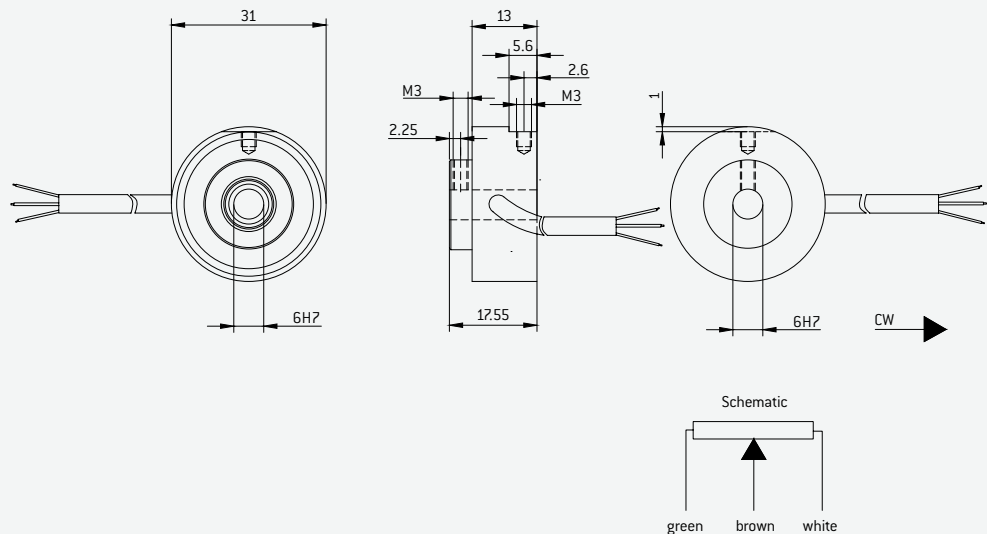
Extremely robust, with good linearity, excellent resolution and repeatability: These are the defining characteristics of the Metallux conductive plastic hollow shaft precision potentiometer PGL 60.

## FEATURES

- Hollow shaft
- Extremely robust
- Extremely good linearity
- Excellent resolution and repeatability
- Ball bearing

## APPLICATIONS

- Steering angle measurement on special vehicles
- Axis position sensing in robotics
- Servo systems



## ELECTRICAL SPECIFICATIONS

<b>Resistance range (R<sub>n</sub>)</b>	10 kΩ *
<b>Resistance tolerance</b>	± 20 %
<b>Electrical angle</b>	320° *
<b>Independent linearity</b>	± 2 %
<b>Resolution</b>	Analogue, almost infinite
<b>Maximum wiper current</b>	5 mA in case of malfunction
<b>Typical supply voltage</b>	3 – 30 VDC
<b>Wiper load</b>	> 100 x R <sub>n</sub>
<b>Insulation resistance</b>	10 GΩ at 500 VDC
<b>Dielectric strength</b>	1000 VAC

Mechanical and electrical characteristics are customizable.  
Specifications are subject to change without notice. \* Others on request.

## MECHANICAL SPECIFICATIONS

<b>Lifetime</b>	25 million cycles
<b>Mechanical positioning range</b>	360° continuous rotation
<b>Protection class</b>	IP 63 according to DIN EN 60529
<b>Bearing</b>	Ball bearing

## AMBIENT CONDITIONS

<b>Operating temperature</b>	– 25°C ... +85°C
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## MATERIAL

<b>Housing</b>	Anodised aluminium
<b>Electrical connectors</b>	Cable 1 m stripped and tinned

## SAMPLE ORDER

Part no.	Type series	Resistance range	Elect. measuring range	Elect. connection	Protection class
H060502320	PGL 60	10 K	320° *	Cable connection	IP 63