HOLLOW SHAFT POTENTIOMETER HWL 60

HWL 60 is an anolog conductive plastic hollow shaft potentiometer. It features a plastic housing and stands out thanks to its simple design, variable connection options, and anti-rotation protection.
The rotation angle is 320° and can be adjusted.

Customizations to meet specific requirements are available upon request.

Advantages
– Adjustable measuring range: 320°
– Long service life
– High resolution, precision, and measurement accuracy

Application Examples
– Flap positioning
– Valve control
– Control sticks
– Measuring the steering angle in vehicles
– Building automation



General data	
Sensor technology	Potentiometric
Type of contact	Wiper
Sensor type	Absolute measuring
Curcuit	As voltage divider

Electrical data	
Measuring range	320°, adjustable
Independent linearity	± 2 %, ± 0.25 % optional
Resolution	Analog, near-infinite
Resistance range	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

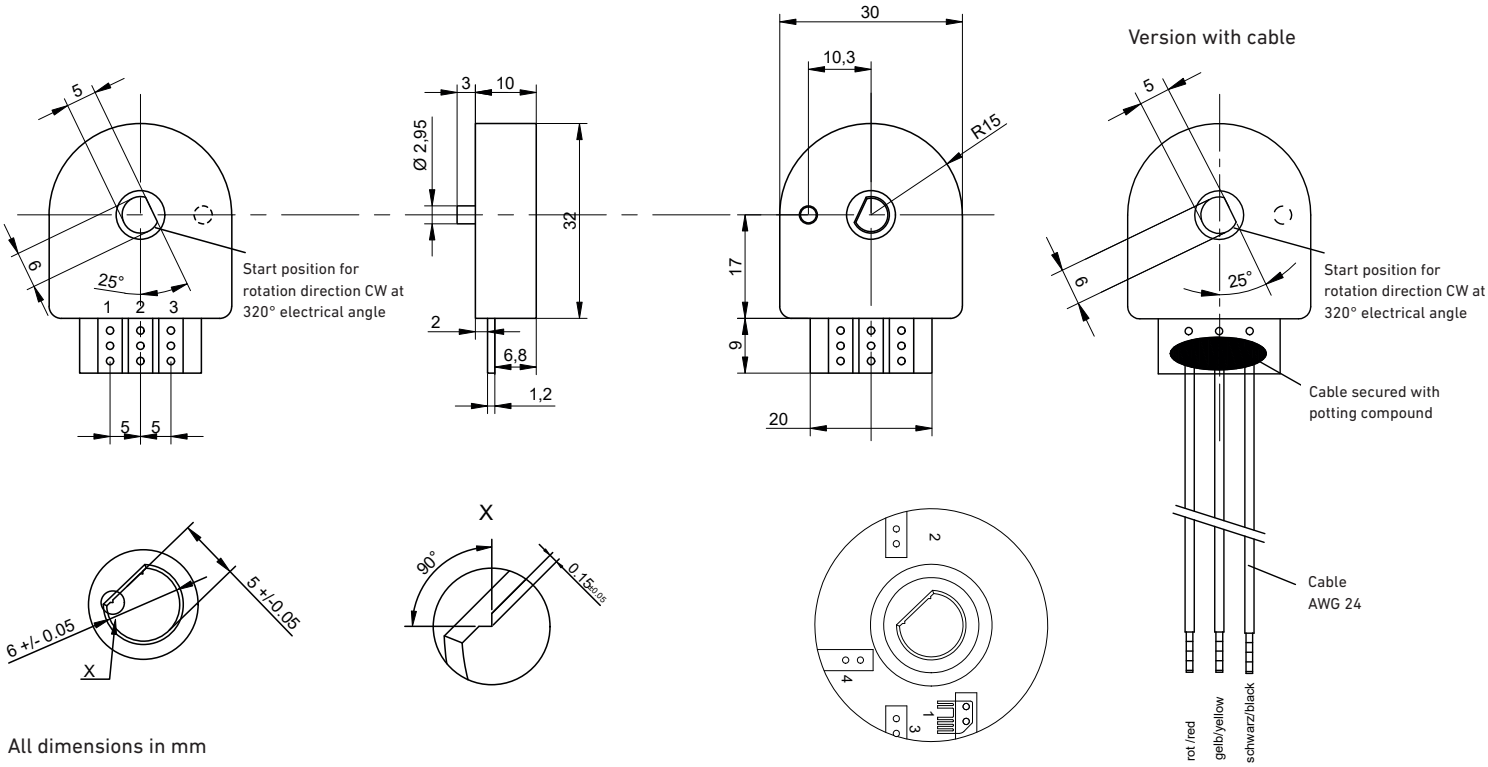
Mechanical data	
Dimensions	See drawings
Bearing	Floating plain bearing
Mounting	Stick
Lifetime	3 million cycles

Environmental data	
Operating temperature	-25 °C to +85 °C
Protection class acc. to IEC 60529	IP 50
EMC	Uncritical
ESD	Uncritical

Material	
Housing	Plastic
Resistance material	Conductive plastic

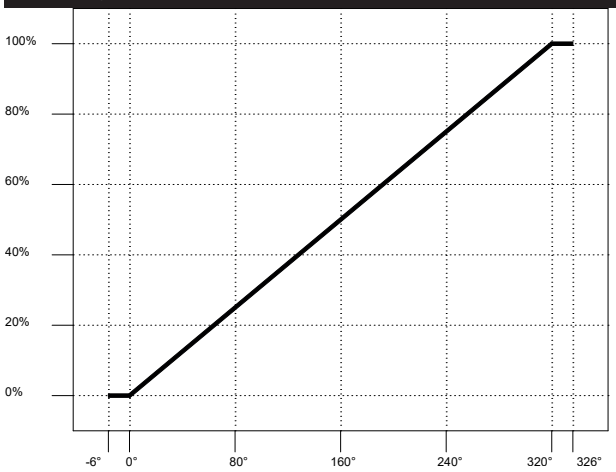
Electrical connection	
	Solder pad gilded Cable (optional)

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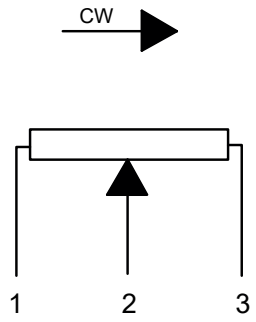


All dimensions in mm

Output signal standard



Electrical connection



Sample order

Article No.	Product name	Measuring range	Electrical connection
H060360013	HWL 60	320°	Solder pad

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).