

# CONDUCTIVE PLASTIC POTENTIOMETER POL 220



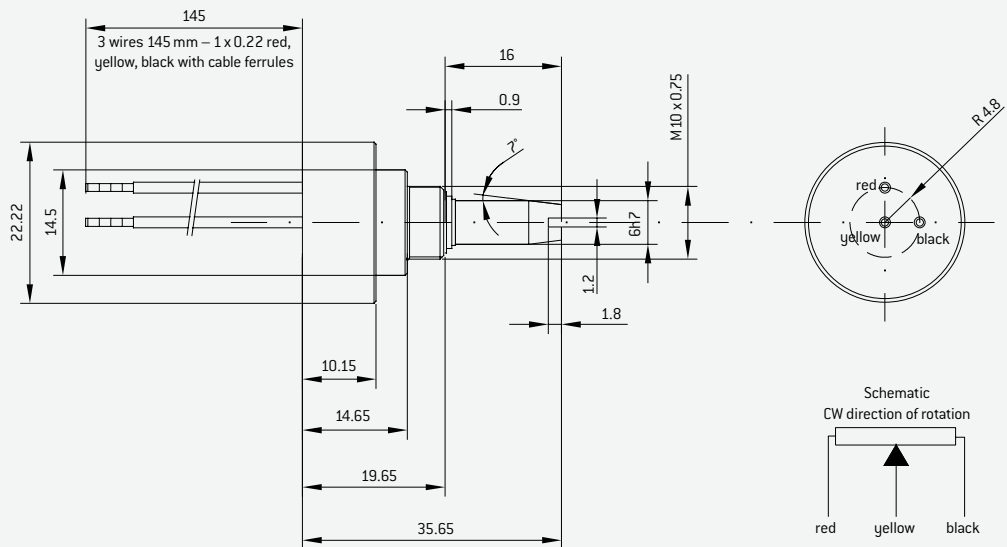
The Metallux single-turn precision potentiometer POL 220 is housed in robust aluminum housing with slide bearing; the cable or wires of the potentiometer are sealed. The potentiometer shaft is available in diameters of 3 – 6.35 mm. Standard is 6h7. The POL 220 excels with a long lifetime and good linearity.

## FEATURES

- Long lifetime
- Good linearity

## APPLICATIONS

- Valve controls
- Joysticks
- Steering angle measurement
- Servo systems



## ELECTRICAL SPECIFICATIONS

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

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

## MECHANICAL SPECIFICATIONS

Lifetime	10 million cycles
Mechanical positioning range	360° continuous rotation
Protection class	IP 65 according to DIN EN 60529
Torque	< 0.3 Ncm
Bearing	Slide bearing

## AMBIENT CONDITIONS

Operating temperature	– 25°C ... +85°C
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## MATERIAL

Housing	Anodised aluminium
Axis	Stainless steel
Connectors	Cable strand with end sleeves

## SAMPLE ORDER

Part no.	Type series	Resistance range	Elect. measuring range	Elect. connection	Protection class
H060400003	POL 220	5 K	320°	3 x wire	IP 63