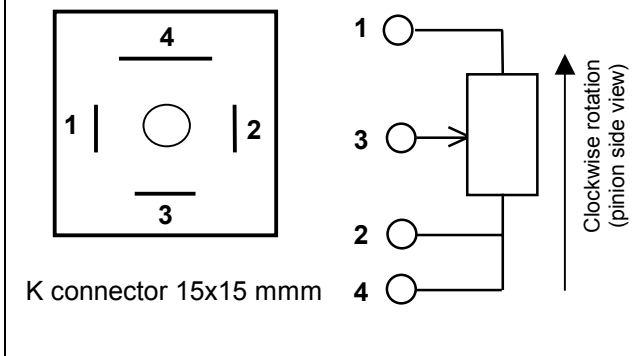


Description

The PR 10 is a through-shaft potentiometric transducer which converts a rotary movement into a resistance change.

It is established by a precision potentiometer that, through a timely transmission receives the control-shaft movement and signals the position to a display or to a position controller.

Electrical connection:



Precautions during assembling

- ◆ Do not exceed the maximum allowable rpm.
- ◆ For electrical connections always use a shielded cable (with shield connected to GND) which must be kept separate from power lines or sources of electromagnetic interference.
- ◆ Make the electrical connections with due care and attention: a failure due to a connection error renders the guarantee null and void
- ◆ The power supply must fall within the admissible range, a value exceeding this range or an alternate current could damage the encoder.

Technical Characteristics

- ◆ Gear Straight toothed gear
- ◆ Normal form 1 mm
- ◆ Gear numbers 10
- ◆ Pressure angle 20°
- ◆ Diametral pitch 10 mm
- ◆ Outside diameter 12 mm
- ◆ Linearity ± 0,25%
- ◆ Resistance 10 KOhm
- ◆ Max. rotation speed with transmission ratio 1:1 300 RPM continuous, 500 RPM for short periods
- ◆ Connector output K type 15x15 mm 4 poles DIN 43650
- ◆ Cableclamp PG7, cable diameter 4 - 6 mm
- ◆ Technopolymer, blow-resistant, self-extinguishing housing resistant to solvents, petrol, oils, grease.
- ◆ Degree of protection IP54
- ◆ Colour RAL 7004 Grey
- ◆ Temperature of operation -10 - 70°C
- ◆ Relative humidity 35 - 85%
- ◆ Directive: 2014/30/EU Electromagnetic compatibility, 2011/65/EU RoHS