# AS40 Potentiometric output – Measurement range from 90° to 3600°

#### **Technical characteristics:**

Maximum measurement range 90° to 3600° Output signal Potentiometer 1kΩ

Resolution Essentially infinite (depending on the operating system)

Material Aluminium base and hood (RohS compliant)

Stainless steel shaft

Axis diameter 10 mm

Detection element Monoturn potentiometer, plastic film, or hybrid multiturn

-8-pin DIN Connector Connectors

- Cable gland + cable

Standard linearity +/- 0,25% PE (other values on demand)

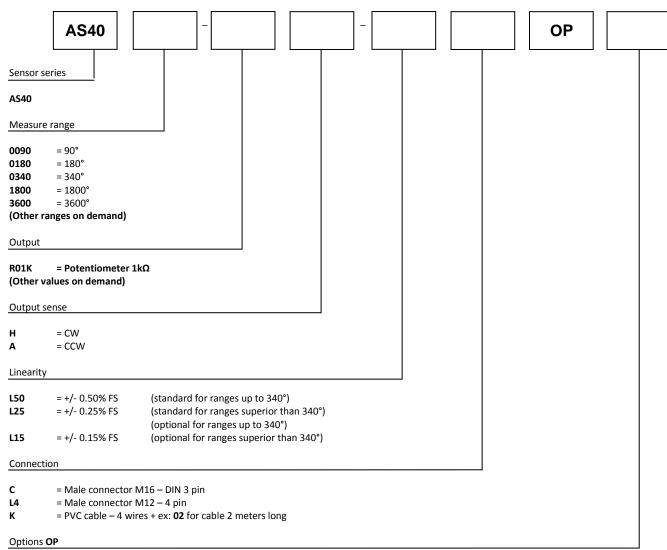
Protection class IP65 (other on demand)

Weight ≈ 200 g

 $\leq$  300m/s<sup>2</sup> (11ms) Shock resistance ≤ 100m/s² (10 ... 500Hz) Vibration resistance

-10° to +70°C Operating temperature -20° to +100°C Storage temperature





Reference example: AS40-3600-R01K-H-L25-K02

= Protection IP67



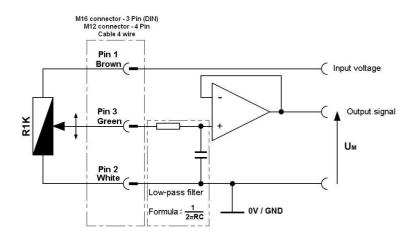
IP67

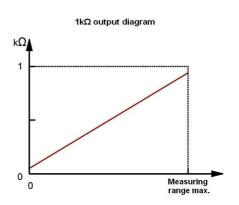
### **Electrical characteristics:**

 $\underline{\textbf{Potentiometric version 1 K} \Omega:} \text{ (other values on demand)}$ 

Temperature drift .....+/-50 ppm/°C

### Example of wiring diagram with input stage:

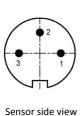


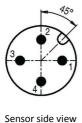


To ensure a good linearity, wire the potentiometer as a voltage divider and never as a rheostat. The input resistance of the operating system must be very high (greater than  $10 M\Omega$ )

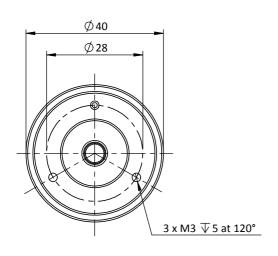
### **Connection:**

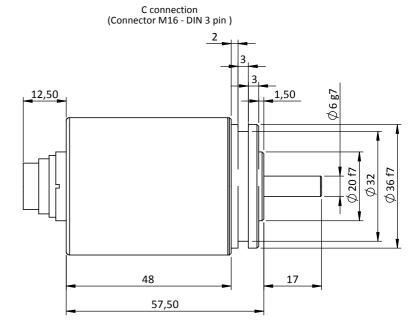
3-pin M16 Male connector (DIN)	4-pin M12 Male connector	4-wire PVC cable	R01K
1	1	Brown	Input voltage +
2	2	White	Input voltage GND
3	3	Green	Signal +
	450		

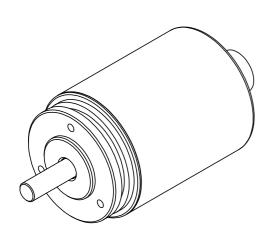


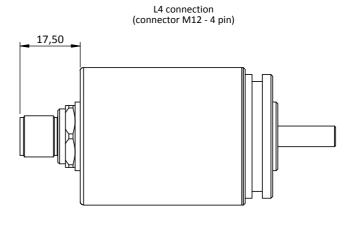


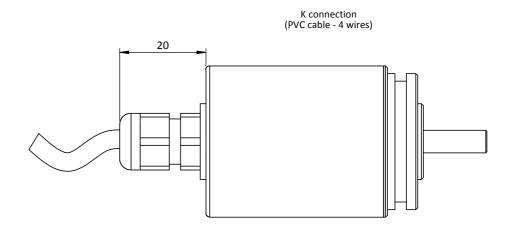
## **Dimensional Drawing**





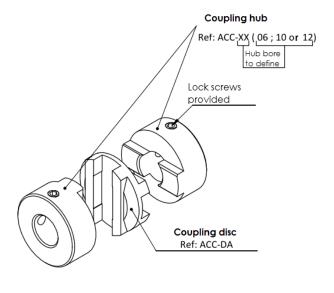


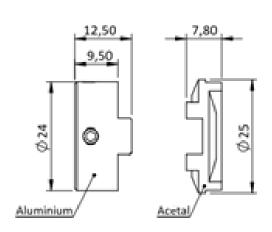






### Oldham coupling





Reference code to order a set

ACC\_XX/XX (06/06; 06/10; 06/12; 10/10; 10/12; 12/12)

Hub bore to define

## $\underline{\text{Cylindrical eccentric}} \ \ \text{(to mount angular sensors and optical encoders)}$

Provided with a set of 4 eccentrics + 4 screws

Ref: EXC-001

