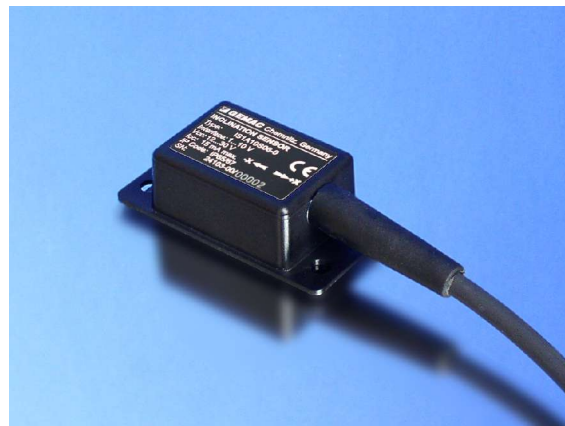


IS1A 10 P06

Characteristics:

- 1- dimensional inclination sensor with measurement range $\pm 10^\circ$
- High resolution and accuracy
- 0...10 V voltage interface
- Robust, simply mountable ABS-housing
- Suitable for industrial use:
 - Temperature range: -40°C to $+80^\circ\text{C}$
 - Degree of protection: IP65/67

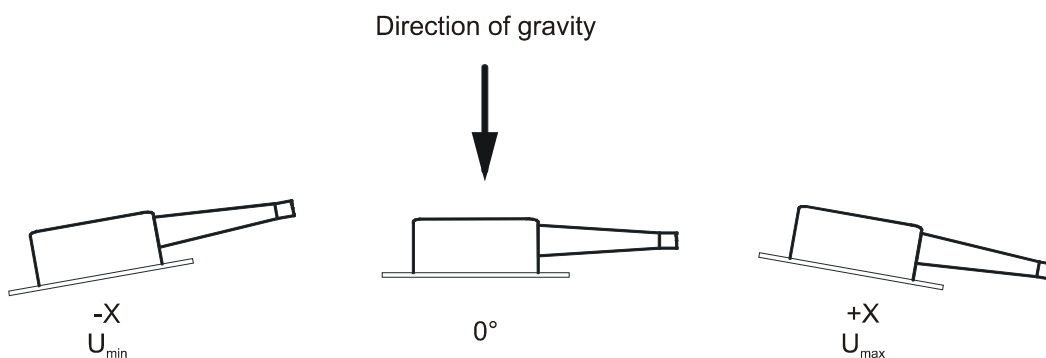


The inclination sensor IS1A 10 P06 enables the one-channel measurement of inclinations in the angle range of $\pm 10^\circ$. The full-scale readings are calibrated factory-made at 25°C .

The compact and robust design makes the sensor a suitable angle measurement device in rough surroundings for different applications in industry and automotive technology.

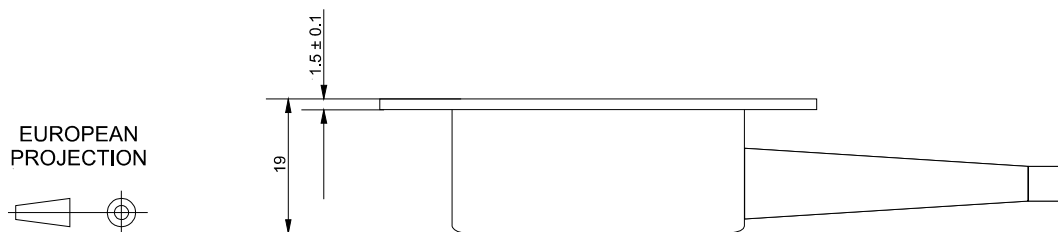
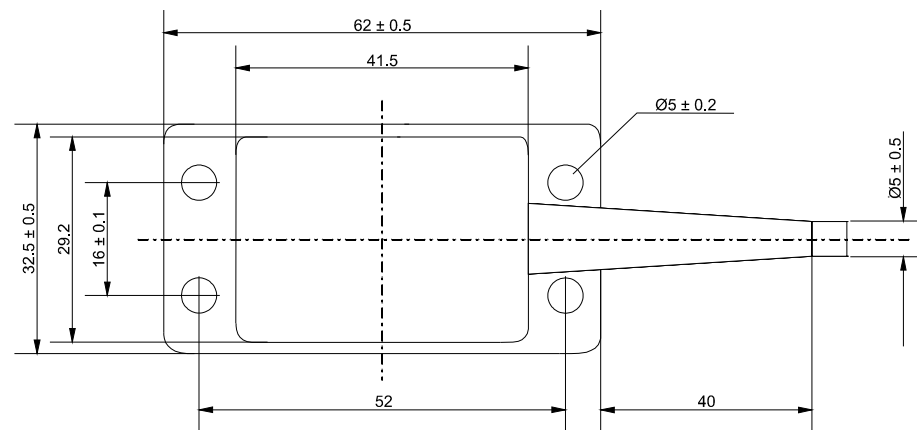
Application:

- Industry automation
- Agricultural and forestry machines
- Utility vehicles
- Crane and hoisting technology



Technical Data:

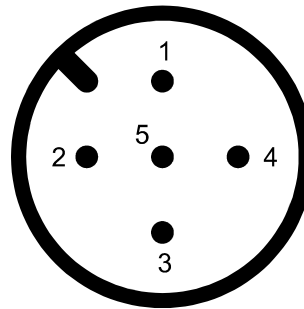
| General Parameters | |
|--------------------------------------|--|
| Measurement axes | 1 axis |
| Measurement range | $\pm 10^\circ$ |
| Resolution (at zero point) | 0.05° |
| Calibration accuracy (at 25° C) | $\pm 0.1^\circ$ |
| Nonlinearity (sine) | Max. $\pm 0.3^\circ$ |
| Temperature coefficient (zero point) | Max. $\pm 0.015 \text{ }^\circ/\text{K}$ |
| Critical frequency | typ. 18 Hz |
| Operating temperature | -40 °C to +80 °C |
| Characteristics | |
| Interface | voltage output 0...10 V |
| Electrical Parameters | |
| Supply voltage | 12 V DC to 30 V DC |
| Current consumption | 10 mA to 15 mA |
| Mechanical Parameters | |
| Connector | sensor connector 5-pole (M12) |
| Degree of protection | IP65/67 |
| Shock survival | Max. 20,000 g |
| Dimensions | 65 mm x 35 mm x 20 mm |
| Mass | about 96 g incl. cable |

Dimensioned Drawing:


Dimensions in mm

Plug Connector Allocation

| Pin | Allocation |
|-----|---------------------------------------|
| 1 | Supply voltage |
| 2 | Reference potential for sensor signal |
| 3 | GND |
| 4 | Sensor signal |
| 5 | Not used |



(View from the outside)

Ordering Information:

| Type | Description/Distinction | Article Number |
|-------------|--|----------------|
| IS1A 10 P06 | 1-dimensional, $\pm 10^\circ$, 0...10 V | PR-24103-00 |