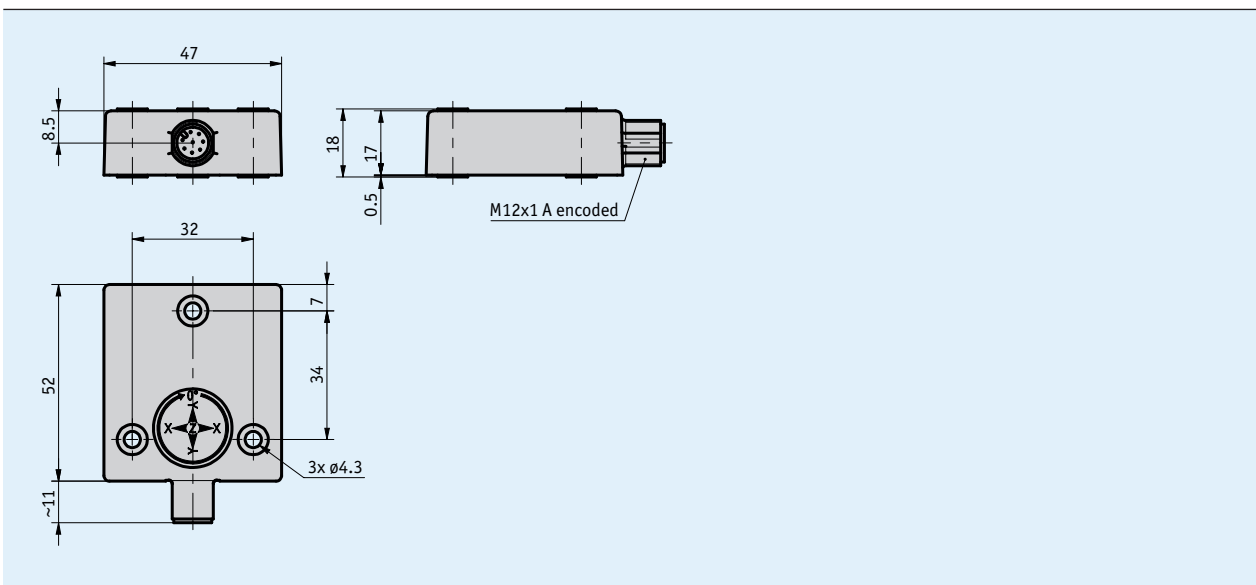


Profile

- One-axis or two-axis inclination sensor (0 ... 360° oder -80 ... +80°)
- Accuracy $\pm 0.5^\circ$; Resolution 0.01°
- Voltage (0 ... 10 V) or current output (4 ... 20 mA) interfaces
- Temperature-compensated
- IP6K9K, IP68 protection category
- Easy three-point mounting
- Teach-in function (zero-point setting)



Mechanical data

| Feature | Technical data | Additional information |
|---------|----------------------------|------------------------|
| Housing | PBT glass-fiber reinforced | |
| Weight | ~0.075 kg | |

Electrical data

| Feature | Technical data | Additional information |
|-------------------|--|------------------------|
| Operating voltage | 10 ... 30 V DC | |
| Power input | ≤ 0.7 W | |
| Interface | Z = 0 ... 10 V, 0° = 0 V, load ≤ 1 mA | 0-10V (1 axis) |
| | X and Y = 0 ... 10 V, 0° = 5 V, load ≤ 1 mA | 0-10V (2 axes) |
| | Z = 4 ... 20 mA, 0° = 4 mA, load ≤ 270 R | 4-20mA (1 axis) |
| | X and Y = 4 ... 20 mA, 0° = 12 mA, load ≤ 270 R | 4-20mA (2 axes) |
| Accuracy | $\pm 0.5^\circ$ | at -10 °C ... 40 °C |
| Cut-off frequency | 100 Hz (without filter) | |

System data

| Feature | Technical data | Additional information |
|-----------------|-----------------------|------------------------|
| Resolution | 0.01° | |
| Measuring range | 360° | 1 axis |
| | X and Y = -80 ... 80° | 2 axes |

Ambient conditions

| Feature | Technical data | Additional information |
|----------------------|--|--|
| Ambient temperature | -40 ... 85 °C | |
| Relative humidity | 100 % | condensation admissible |
| EMC | EN 61000-6-2 | interference resistance / immission |
| | EN 61000-6-4 | emitted interference / emission |
| Protection category | IP67 | EN 60529, fitted with suitable mating connector |
| | IP6K9K | ISO 20653, fitted with suitable mating connector |
| Shock resistance | $\leq 1000 \text{ m/s}^2$, 6 ms | EN 60068-2-27 |
| Vibration resistance | 1.5 mm, 10 ... 58 Hz | EN 60068-2-6 |
| | $\leq 200 \text{ m/s}^2$, 58 Hz ... 2 kHz | EN 60068-2-6 |

Pin assignment

| Signal (1 axis) | Signal (2 axes) | Pin |
|-------------------|-------------------|-----|
| +UB | +UB | 1 |
| nc | nc | 2 |
| nc | nc | 3 |
| GND | GND | 4 |
| Z-axis output U/I | X-axis output U/I | 5 |
| SET1 | SET1 | 6 |
| nc | Y-axis output U/I | 7 |
| nc | nc | 8 |

Order

Ordering table

| Feature | Ordering data | Specification | Additional information |
|----------------|---------------|--------------------------------|------------------------|
| Number of axes | 1 | 0 ... 360° | |
| | 2 | X -80 ... +80°, Y -80 ... +80° | |
| Interface | 0-10V | 0 ... 10 V voltage output | |
| | 4-20mA | 4 ... 20 mA current output | |

Order key

IK360L - -

Scope of delivery: IK360L, Fastening set

Accessories:

Electronic display MA50

Cable extension KV08S3

Mating Connector Overview

Mating connector, 5-pole, socket

Mating connector, 5-pole, angle socket

Mating connector, 8-pole, socket

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