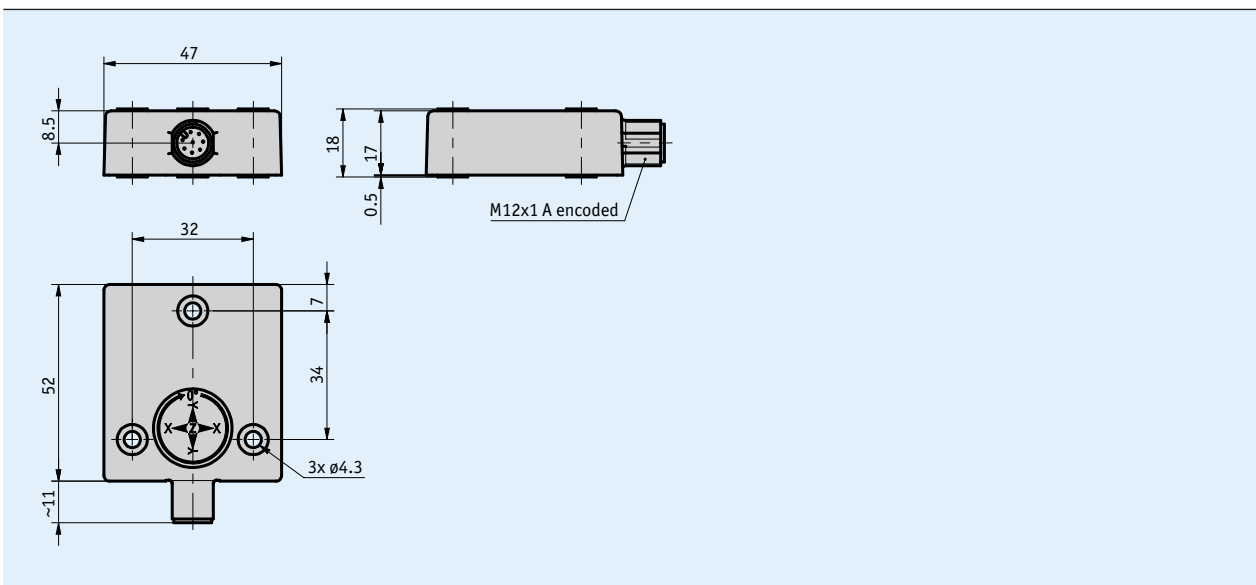


### Profile

- One-axis or two-axis inclination sensor (0 ... 360° oder -80 ... +80°)
- Accuracy  $\pm 0.1^\circ$ ; Resolution 0.01°
- RS232+U, RS232+I, CANopen interfaces
- Temperature-compensated
- IP6K9K, IP68 protection category
- Easy three-point mounting
- Programmable parameters (resolution, preset, software filter)
- Teach-in function (Limiting of measurement range, zero-point setting or change of direction)



### 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	12 ... 30 V DC	current output
	10 ... 30 V DC	voltage output and CANopen
Power input	$\leq 0.7$ W	
Interface	Z = 0 ... 10 V, 0° = 0 V, load $\leq 1$ mA	RS232+U0-10V (1 axis)
	X and Y = 0 ... 10 V, 0° = 5 V, load $\leq 1$ mA	RS232+U0-10V (2 axes)
	Z = 4 ... 20 mA, 0° = 4 mA, load $\leq 270$ R	RS232+I (1 axis)
	X and Y = 4 ... 20 mA, 0° = 12 mA, load $\leq 270$ R	RS232+I (2 axes)
	according to ISO 11898, galvanically isolated	CANopen (profile 410)
Accuracy	0.1°	at -10 ... 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	IP68	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) RS232 + analog	Signal (2 axes) RS232 + analog	Signal CAN	Pin
+UB	+UB	CAN_GND	1
RXD	RXD	+UB	2
TXD	TXD	GND	3
GND	GND	CAN_H	4
Z-axis output U/I	X-axis output U/I	CAN_L	5
Analog Input Preset oder SET1 (Teach-In)	Analog Input Preset oder SET1 (Teach-In)	-	6
N.C.	Y-axis output U/I	-	7
Analog Input Inverse Direction or SET2 (Teach-In)	Analog Input Inverse Direction or SET2 (Teach-In)	-	8

### Order

#### Ordering table

Feature	Ordering data	Specification	Additional information
Number of axes	1	0 ... 360°	
	2	X -80 ... +80°, Y -80 ... +80°	
Interface	RS232+U0-10V	RS232, 0 ... 10 V voltage output	
	RS232+I	RS232, 4 ... 20 mA current output	
	CAN	CANopen	

#### Order key

IK360 -  -   
A B

**Scope of delivery:** IK360, Fastening set

#### Accessories:

Electronic display MA50

[www.siko-global.com](http://www.siko-global.com)

Cable extension KV05S0

[www.siko-global.com](http://www.siko-global.com)

Cable extension KV08S3

[www.siko-global.com](http://www.siko-global.com)

Mating Connector Overview

[www.siko-global.com](http://www.siko-global.com)

Mating connector, 5-pole, socket

Order key 84109

Mating connector, 5-pole, angle socket

Order key 83006

Mating connector, 8-pole, socket

Order key 83525