



- Analogue voltage or current output
- 1 axis operation, ± 180 deg
- 2 axes operation, ± 10 / ± 30 / ± 60 deg
- Measurement accuracy $\pm 0,1$ deg
- Robust metal housing with IP67 protection



IXA1 • IXA2

ENVIRONMENTAL SPECIFICATIONS

Shock:	300 g, 11 ms acc. to EN60068-2-27
Vibrations:	8,2-500 Hz, 40 m/s ² acc. to EN60068-2-6 10-500 Hz, 3 g acc. to EN60068-2-64
Protection:	IP67
Operating temperature range:	-40°C +85°C (-40°F +185°F)
Storage temperature range:	-40°C +85°C (-40°F +185°F)

MECHANICAL SPECIFICATIONS

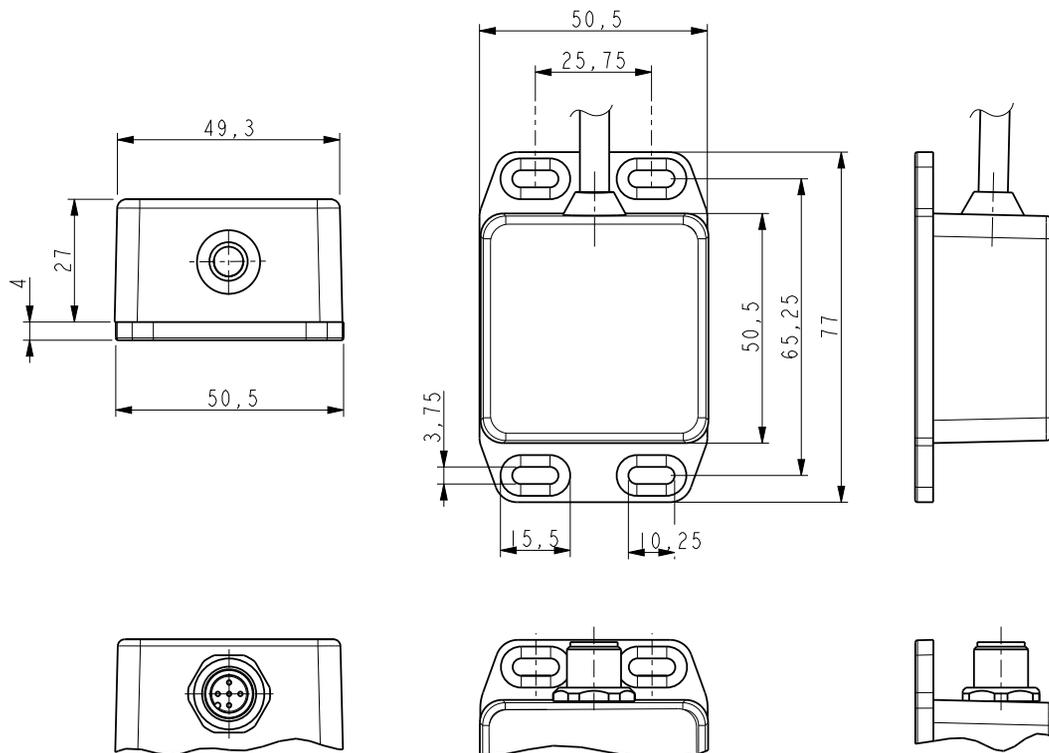
Dimensions:	see drawing
Housing material:	die cast aluminium alloy
Electrical connections:	cable 1 m
Options:	additional cable, M12 5 pin plug

ELECTRICAL SPECIFICATIONS

Resolution & Accuracy:	AI1 (4-20mA) output: 7.33 uA steps, typ. $\pm 0,2^\circ$ AV1 (0.5-4.5V) output: 1.67 mV steps, typ. $\pm 0,2^\circ$ AV2 (0.5-9.5V) output: 1.3 mV steps, typ. $\pm 0,1^\circ$
Temperature drift:	$\pm 0,008$ deg/°C
Measurement range:	1 axis (IXA1): $\pm 180^\circ$ 2 axes (IXA2): $\pm 10^\circ$, $\pm 30^\circ$, $\pm 60^\circ$ (others on req.)
Output circuit:	0,5 to 4,5V; 0,5 to 9,5V; 4-20mA
Power supply:	+7Vdc +30Vdc (AV2 output +12Vdc +30Vdc)
Power consumption:	10 mA max.
Protection:	against inversion of polarity
EMC:	acc. to EN 61000-6-2, EN 61000-6-3

ACCESSORIES

E-M12FC:	M12 5 pin connector
EC-M12FC-LK-I5-050:	M12 cordset with 5 m cable
EC-M12FC-LK-I5-100:	M12 cordset with 10 m cable



IXA1 • IXA2

Order code - 1 axis version

IXA1	-	XXX a	-	XXX b	-	XX c	-	/Sxxx d
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a) OUTPUT
 AV1 = 0,5-4,5V
 AV2 = 0,5-9,5V
 AI1 = 4-20mA

b) MEASURING RANGE
 90 = ±90°
 180 = ±180°

c) CONNECTION
 L010 = cable 1 m (standard)
 Lx = cable x m (length on request)
 M5 = M12 5 pin plug

d) CUSTOM VERSION

Order code - 2 axes version

IXA2	-	XXX a	-	XXX b	-	XX c	-	/Sxxx d
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a) OUTPUT
 AV1 = 0,5-4,5V
 AV2 = 0,5-9,5V
 AI1 = 4-20mA

b) MEASURING RANGE
 10 = ±10 deg
 30 = ±30 deg
 60 = ±60 deg

c) CONNECTION
 L010 = cable 1 m (standard)
 Lx = cable x m (length on request)
 M5 = M12 5 pin plug

d) CUSTOM VERSION

Document release	Date	Description
1.2	28.10.2025	General update, specifications and order codes
1.1	31.03.2025	Accessories