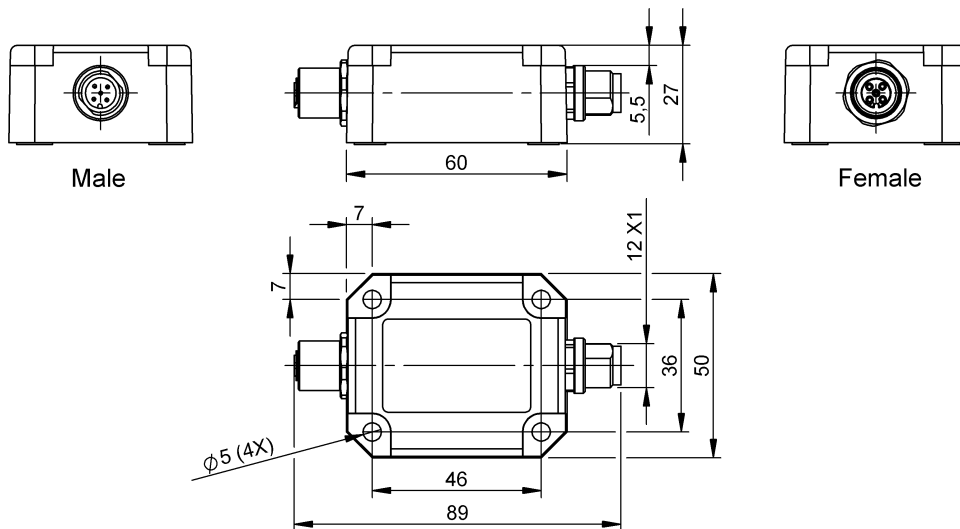




Basic features

Approval/Conformity	CE
	UKCA
	cULus
	EAC
	E4
Basic standard	WEEE
	EN 61326-1
Measuring principle	MEMS

Electrical connection

Connection 1	M12x1
Connection 2	M12x1
Polarity reversal protected	yes
Protection against device mix-ups	no
Short-circuit protection	yes

Electrical data

Current draw max.	50 mA
Operating voltage U_b	10...32 VDC
Rated operating voltage U_e DC	24 V
Ready delay t_v max.	0.5 s

Environmental conditions

Ambient temperature	-40 °C...80 °C
EN 60068-2-27, Shock	Half-sinus, 30 g_n , 11 ms
EN 60068-2-6, Vibration	10...2000 Hz, amplitude 2 mm pp, 30 g_n , 120 sweeps
IP rating	IP67, IP69
Relative humidity	95 %, non-condensing
Storage temperature	-40...85 °C

Functional safety

MTTF (40 °C)	226 a
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Material

Housing material	Plastic
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Mechanical data

Dimension	50 x 27 x 60 mm
Measuring axes	1
Mounting part	Threads
Rotation direction	Clockwise
Weight	110 g

Output/Interface

Interface	CANopen EN 50325-4 (CiA 301 v4.2.0) CiA 410 v2.0.0
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Inclination Sensors
BSI R65K0-HXX-MXP360-ST39
Order Code: BSI001L

BALLUFF

Range/Distance

Accuracy $\pm 0.5^\circ$

Resolution

$\leq 0.01^\circ$

Temperature drift max.

T0°C: $\pm 0.5^\circ/10\text{ K}$, T0°C: $\pm 1.2^\circ/10\text{ K}$

Remarks

Can be centered over 360° in the vertical position
The sensor is inherent sensitive for accelerations/vibrations.
Application specific testing must be carried out to check whether this sensor will fulfil the requirements.
For more information about MTTF and B10d see MTTF / B10d Certificate

Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

Connector Drawings



PIN 1: shield
PIN 2: Vcc
PIN 3: GND & CAN GND
PIN 4: CAN H
PIN 5: CAN L

Technical Drawings

