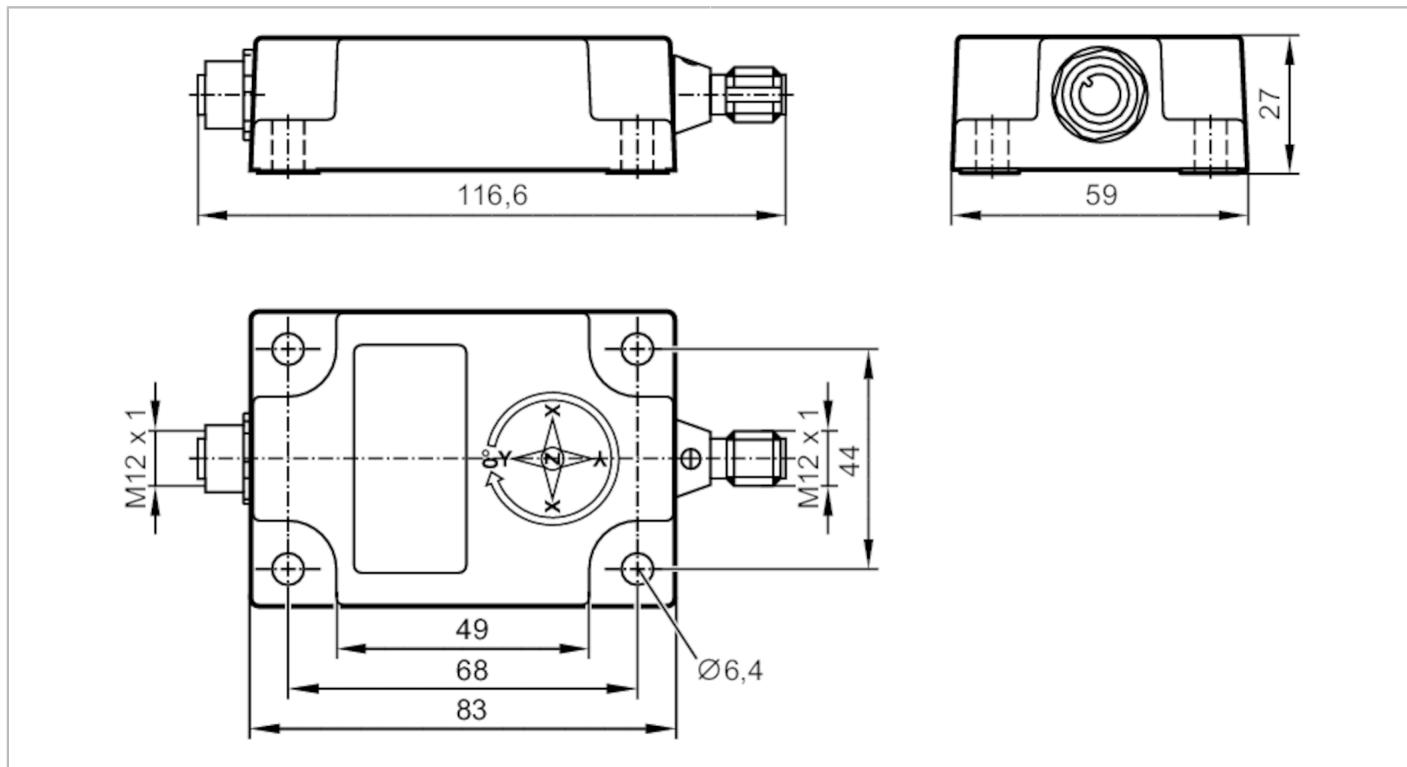


JD1121



Inclination sensor

INC-M1M360C-2-KG/US-V



Product characteristics

Measuring principle	MEMS capacitive; (Acceleration sensor ; gyroscope)
Number of measurement axes	1; (Z)
Communication interface	CAN
Inclination measurement	
Angular range [°]	0...360

Application

Function principle	dynamic
Application	High-precision inclination measurement in dynamic applications

Electrical data

Operating voltage [V]	9...30 DC
Current consumption [mA]	< 65; (9 ... 30 V DC)
Min. insulation resistance [MΩ]	100; (500 V DC)
Protection class	III
Reverse polarity protection	yes
Reverse polarity protection	yes

Measuring/setting range

Measuring principle	MEMS capacitive; (Acceleration sensor ; gyroscope)
Number of measurement axes	1; (Z)
Inclination measurement	
Angular range [°]	0...360

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Inclination sensor

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Measuring range acceleration	[g]	± 4
Measuring range vehicle yaw rate	[°/s]	± 500
Accuracy / deviations		
Hysteresis	[°]	≤ ± 0,05
Repeatability	[°]	± 0,05
Resolution	[°]	0.01; (parameterisable)
Temperature coefficient	[1/K]	≤ ± 0,008°
Dynamic measurement		
Accuracy	[°]	± 0,5
Static measurement		
Accuracy	[°]	± 0,3
Interfaces		
Communication interface		CAN
Number of CAN interfaces		1
Terminating resistor		yes; (internal ; parameterisable)
CAN		
Protocol		CANopen
Factory settings		Baud rate: 125 kBit/s node ID: 10
Version		CiA DS301 V4.2.0; DSP-410 V2.0.0; CiA 306 V1.3.0
Operating conditions		
Ambient temperature	[°C]	-40...85
Storage temperature	[°C]	-40...85
Protection		IP 67; IP 68; IP 69K
Tests / approvals		
EMC		DIN EN 61000-6-2
		DIN EN 61000-6-4
Shock resistance		DIN EN 60068-2-27
Vibration resistance		DIN EN 60068-2-6
MTTF	[ANN]	260
Mechanical data		
Weight	[g]	211
Dimensions	[mm]	27 x 59 x 118.5
Materials		housing: diecast aluminium black; potting compound: polyurethane resin
Installation position		vertical
Displays / operating elements		
Display		preoperational mode operational mode fault
		1 x LED, green 1 x LED, green flashing 1 x LED, red
Аксесуари		
Items supplied		Protective cover: 2
Remarks		
Pack quantity		1 pcs.

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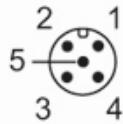


Inclination sensor

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Electrical connection - CAN-In

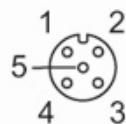
Connector: 1 x M12; coding: A



1	CAN Screen
2	+ UB
3	CAN_GND
4	CAN_H
5	CAN_L

Electrical connection - CAN-Out

Connector: 1 x M12; coding: A



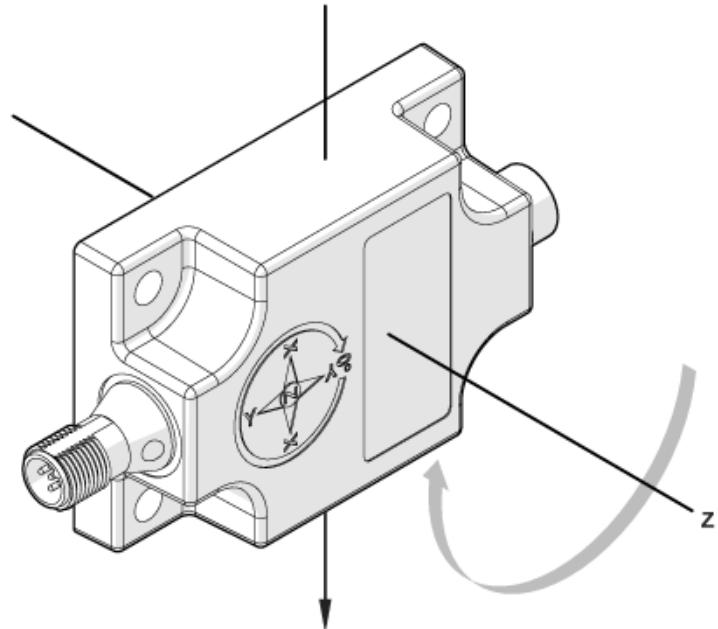
1	CAN Screen
2	+ UB
3	CAN_GND
4	CAN_H
5	CAN_L

Inclination sensor

INC-M1M360C-2-KG/US-V

Diagrams and graphs

Mess- und Montagerichtung



vertikale Einbaulage / Rotation um Z-Achse