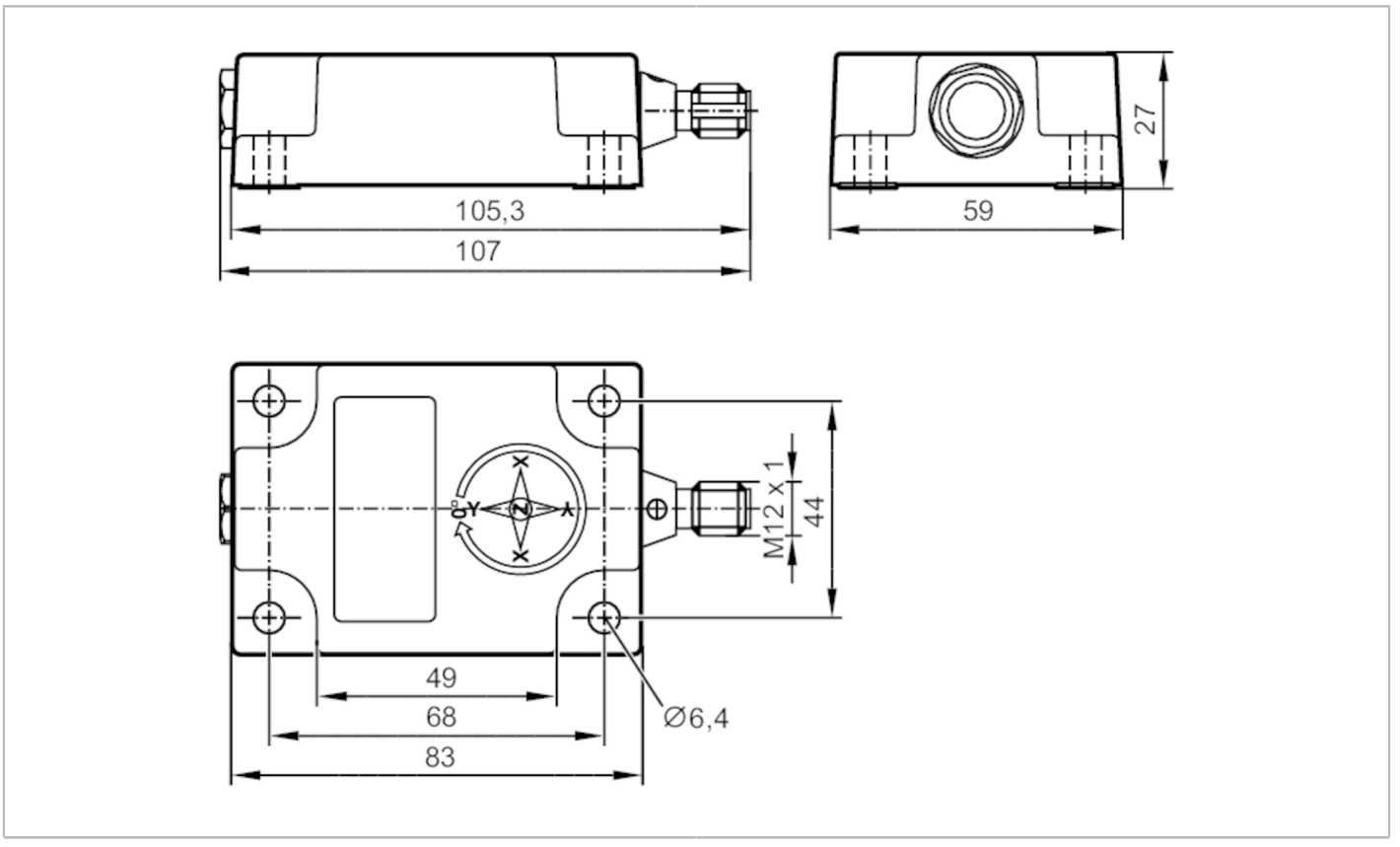
JD2110

Inclination sensor

INC-M2M180C-1-KG/US-H



Product characteristics		
Number of measurement axes		2; (X/Y)
Dimensions	[mm]	27 x 59 x 105.3
Inclination measurement		
Angular range	[°]	± 90
Application		
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		2
Number of measurement axes		2; (X/Y)

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Inclination measurement			
Angular range	[°]	± 90	
Angular range	[°]	± 90	
Measuring range acceleration	[g]	± 4	
Measuring range vehicle yaw rate	[°/s]	± 500	
Accuracy / deviations			
Repeatability	[°]	± 0,05	
Resolution	[°]	0.01; (parameterisable)	
Hysteresis	[°]	0.05	
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	
Protocol		CANopen	
Factory settings		Baud rate: 125 kBit/s	
		node ID: 10	
Version		CiA DS-410	
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	[years]	260	
Mechanical data			
Weight	[g]	198	
Dimensions	[mm]	27 x 59 x 105.3	
Materials		housing: diecast aluminium black; potting compound: polyurethane resin	
Displays / operating elements			
Display		preoperational mode	1 x LED, green
		operational mode	1 x LED, green flashing
		fault	1 x LED, red
Accessories			
Accessories (supplied)		Protective cover: 1	
Remarks			
Pack quantity		1 pcs.	

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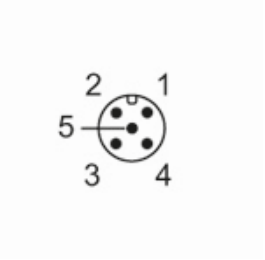
Electrical connection - CAN-In

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

Connector: 1 x M12