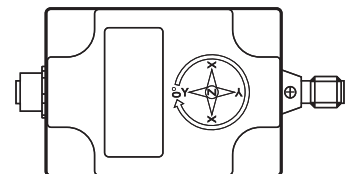




Installation instructions Inclination sensor JD

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1 Preliminary note

You will find the device manual, technical data, approvals, accessories and further information at www.ifm.com.

2 Safety instructions

- The device described is a subcomponent for integration into a system.
 - The manufacturer is responsible for the safety of the system.
 - The system manufacturer undertakes to perform a risk assessment and to create a documentation in accordance with legal and normative requirements to be provided to the operator and user of the system. This documentation must contain all necessary information and safety instructions for the operator, the user and, if applicable, for any service personnel authorised by the manufacturer of the system.
- Read this document before setting up the product and keep it during the entire service life.
- The product must be suitable for the corresponding applications and environmental conditions without any restrictions.
- Only use the product for its intended purpose (→ 3 Function and features).
- If the operating instructions or the technical data are not adhered to, personal injury and/or damage to property may occur.
- The manufacturer assumes no liability or warranty for any consequences caused by tampering with the product or incorrect use by the operator.
- Installation, electrical connection, set-up, programming, configuration, operation and maintenance of the product must be carried out by personnel qualified and authorised for the respective activity.
- Protect units and cables against damage.

3 Functions and features

Dynamic MEMS inclinometers sense and measure the angle of tilt (inclination/slope/elevation) of an object.

JD1xxx: 1-axis sensor with angular range 0...360° (vertical installation).

JD2xxx: 2-axis sensor with angular range ±90° (horizontal installation).

4 Installation

- Choose a level mounting surface.
- Fix the unit using 4 screws, tightening torque 1.5...2.5 Nm.

Recommendation:

M6 screws or 1/4" UNC screws

- Adjust M12 connectors precisely and screw them fully into the unit, tightening torque 1.5 Nm.

5 Electrical connection

The inclinometer is connected via a 5-pin M12 connector.

Pin configuration

	1: CAN_GND 2: Supply voltage 24 V DC (+U _B) 3: GND 4: CAN_H High bus cable 5: CAN_L Low bus cable
M12 connector CAN-In	
	1: CAN_GND 2: Supply voltage 24 V DC (+U _B) 3: GND 4: CAN_H High bus cable 5: CAN_L Low bus cable
M12 socket CAN-Out	

5.1 Bus termination

The sensor has a terminating resistor that can be enabled (120 Ω). Depending on the interface, this resistor can be activated via the software (default: deactivated).