

ifm electronic



Installation instructions
Inclination sensor JN

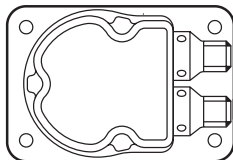
efector 410

JN2200

JN2201

UK

80237500/00 04/2016



1 Functions and features

The 2-axis analogue/binary inclination sensor with IO-Link interface enables angle levelling and position detection of machines and installations.

Typical applications are, for example, the position detection of access platforms, levelling of mobile cranes or monitoring of wind turbines.

2-axis inclination sensors with a measuring range of:

- JN2200: $\pm 180^\circ$
- JN2201: $\pm 45^\circ$

2 Symbols used

► Instruction



Important note

Non-compliance may result in malfunction or interference.

3 Installation



► Disconnect from power before installation.

3.1 Fixing

- Fasten the device using 4 M5 screws on a flat surface.
Screw material: steel or stainless steel.

3.2 Mounting surface



The housing must not be exposed to any torsional forces or mechanical stress.

- Use compensating elements if there is no flat mounting surface available.

4 Electrical connection



The unit must be connected by a qualified electrician.

The national and international regulations for the installation of electrical equipment must be adhered to.

- Disconnect the installation from power and connect the unit.

The inclination sensors are fitted with two round 4-pole M12 connectors (class A) in accordance with IEC 60947-5-2. The M12 connectors are mechanically A-coded in accordance with IEC 61076-2-101.

	<table> <tr> <td>1: L+</td><td>24 V DC (+Ub-D)</td></tr> <tr> <td>2: OUT2</td><td>switching output 2</td></tr> <tr> <td>3: L-</td><td>mass (GND)</td></tr> <tr> <td>4: OUT1</td><td>switching output 1 or IO-Link</td></tr> </table>	1: L+	24 V DC (+Ub-D)	2: OUT2	switching output 2	3: L-	mass (GND)	4: OUT1	switching output 1 or IO-Link
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M12 connector (left)									
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M12 connector (right)									

5 IO-Link

General information

This unit has an IO-Link communication interface (via pin 4) which requires an IO-Link-capable module (IO-Link master) for operation.

The IO-Link interface enables direct access to process and diagnostic data. Communication via a point-to-point connection is possible with USB adapter cable. You will find the IODDs and parameter setting tools necessary for the configuration of the IO-Link unit at www.ifm.com.

6 Technical data, approvals/standards

Detailed manuals, technical data, EC declaration of conformity, approvals and further information can be found at www.ifm.com.

7 Maintenance, repair and disposal

The unit is maintenance-free.

- Dispose of the unit in accordance with the national environmental regulations.