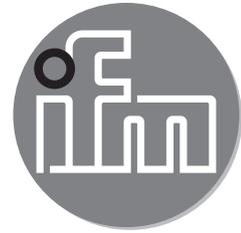


ifm electronic



Operating instructions

(Safety-related part IEC Ex)

Inductive NAMUR sensors

UK

N95001

80236053/00 04/2016

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Function and features

- Use in hazardous areas according to the following classification

Table 1:

Order no.	Classification	Operating temperature range Ta
N95001	Ex ia IIC Gb Ex ia IIIB T90°C Da	-20°C up to +70°

- The requirements of the IEC60079-0:2011, IEC60079-11:2011 standards are met.
- IEC type test certificate

IEC Ex BVS 06.0003

Installation / Set-up

The units should only be mounted, connected and set up by qualified staff. The qualified staff must have knowledge of protection classes, regulations and provisions for apparatus in hazardous areas.

Check whether the classification (see Table 1 above and marking on the unit) is suitable for the application.

- Sensor connection:

Only to intrinsically safe certified circuits or evaluation amplifiers which do not exceed the following maximum values of the units:

$U_i = 15V, I_i = 50mA, P_i = 120mW$

- Solenoid valve connection:

Only to intrinsically safe certified circuits of solenoid valves that do not exceed the following maximum values of the unit. Also observe the technical data sheet.

$U_i = 28V, P_i = 2W$

- Pin Layout connector Rd 24x1/8 (field connection):

Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6
+ sensor 1	- sensor 2	+ sensor 2	- sensor 1	+ solenoid valve	- solenoid valve
pin PE: Plug housing M12 connector					

- Pin Layout M12 connector:

Pin 1	Pin 2
+ connection solenoid valve	- connection solenoid valve
pin 3, pin 4, pin 5: not connected	

- Permissible operating temperature of the application (referred to the maximum power which can be supplied):

-20°C up to +70°C

- Maximum effective internal inductance (Li) and capacitance (Ci):

Order no.	Internal inductance total (µH)	Internal capacitance total (nF)
N95001	150	150

Installation remarks / Mounting

- Adhere to the respective national regulations and provisions.
- Avoid electrostatic charging from housing and cables.
- To avoid electrostatic charging steps must be taken to ensure the equalisation of potential of metal parts (plug housing, fixing elements, etc.). For this purpose the plug housing of the M12 connector (connection solenoid valve) is connected to PIN PE of the connector Rd 24x1/8. According to the requirements of the installation regulations the plug housing can be grounded via this pin to avoid electrostatic charging, if grounding is not ensured otherwise.
- Protect unit and cable efficiently against destruction.
- The unit must conform to the corresponding installation regulations.
- The wiring is indicated in the technical data sheet or on the type label.



NOTE

Avoid electrostatic charging on plastic units and cables.

Special conditions for safe operation

- Always refer to the operating instructions as space restrictions may not allow all markings to be applied to the unit.

Maintenance / Repair

The unit must not be modified nor can it be repaired. In case of a fault please contact the manufacturer.

If needed, you can obtain the data sheet or the type test certificate from the manufacturer (see cover sheet).

You can find the IECEx online certificate at www.iecex.com.

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