

ifm electronic



Operating instructions

(Safety-related part ATEX and IEC Ex)
Capacitive NAMUR sensor

UK

KG5079

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Remarks for safe use in hazardous areas

Functions and features

- Use in hazardous areas according to the classification
II 1G (group II, category 1G, apparatus for gas atmosphere)
The standards IEC 60079-0:2011, IEC 60079-11: 2011, IEC 60079-26: 2006 + Corr 2009 are applied.
- Use in hazardous areas according to the classification
II 1D (group II, category 1D, apparatus for dust atmosphere).
The standards IEC 60079-0:2011, IEC 60079-11:2011 are applied.
- EC Type Test Certificate

BVS 13 ATEX E009 X

- IEC Type Test Certificate

IEC Ex BVS 13.0015 X

- Marking

 **II 1G Ex ia IIB T4 Ga Ta: - 20°C to 60°C**

 **II 1D Ex ia IIIC T135°C Da**

Installation / Set-up

The units must only be installed, 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 "Marking" above and marking on the unit) is suitable for the application.

- Connection only to intrinsically safe switching amplifiers which are approved with the EC type test certificate and do not exceed the following maximum values:

$U_i = 15 \text{ V}$, $I_i = 50 \text{ mA}$, $P_i = 120 \text{ mW}$

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

-20 ... +60°C

- Maximum effective internal inductance (L_i) and capacitance (C_i):

$L_i = 3.4 \text{ mH}$, $C_i = 0.7 \text{ }\mu\text{F}$

The values apply to potted cables which are 6 m long.

Installation remarks / Mounting

- Adhere to the respective national regulations and provisions.
- Avoid electrostatic charging on plastic units and cables.
- Protect unit and cable against destruction.
- The units are not suitable for installation in the partition between different zones.
- The unit must conform to the corresponding installation regulations.
- The wiring is indicated in the technical data sheet or on the type label.

Special conditions for safe operation

If the sensor is used in zone 0, the sensor and the connected cable must be set up so as to exclude intensive electrostatic charging.

Use of the sensor in atmospheres containing toluene or benzene is not permitted.

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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, type test certificate or EC declaration of conformity from the manufacturer.

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