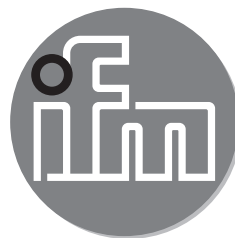




ifm electronic



Operating instructions NAMUR cylinder sensors
MRT2***-N--/R/... MKT2***-N--/A/...

UK

Operating instructions (safety-related part ATEX)

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).



II 1G Ex ia IIC T4 Ga

- Use in hazardous areas according to the classification

II 1D (group II, category 1D, apparatus for dust atmosphere).



II 1D Ex ia IIIC T135°C Da

- The requirements of the standards IEC60079-0, IEC60079-11, IEC61241-11 and IEC60079-26 are met.

EC type test certificate

BVS 09 ATEX E164

IECEx type test certificate

IECEx BVS 09.0065

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 table 1 above and marking on the unit) is suitable for the application.

- Connection only to intrinsically safe circuits 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 operating temperature of the application (referred to the maximum power which can be supplied):

$-25...70^\circ\text{C}$

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

Type designation	Internal inductance Li in μH	Internal capacitance Ci in nF
MRT2***-N--/R/...	400 ¹⁾	10
MKT2***-N--/A/...	400 ¹⁾	140

¹⁾ for 6 m connection cable (coiled)

Installation remarks / Installation

- Adhere to the relevant national regulations and provisions.
- Avoid electrostatic charging on plastic units and cables.
- To avoid electrostatic charging steps must be taken to ensure the equalisation of potential of metal parts (plug housing, fixing elements, etc.).
- Protect the units and the cables efficiently against damage.
- The units must not be installed in the partition between different zones.
- The relevant installation regulations must be adhered to.
- The wiring is indicated in the technical data sheet or on the type label.
- The electrical connections (cables, wires, connectors) must be installed so that at least the protection rating IP 20 to IEC 60529 is met.

UK

Special conditions for safe operation

- NAMUR cylinder sensors may only be used in areas for which units of the category 1G are required if intensive electrostatic charges caused by the application or the process cannot arise.

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 data sheets or EC type test certificates from the manufacturer.