



Operating instructions
(Ex protection related part)
Capacitive NAMUR sensor

GB

KI5030
KI5031

1 Safety instructions



Remarks for safe use in hazardous areas.

- The device must only be installed, connected and set up by qualified staff. The qualified staff must have knowledge of types of protection, regulations and provisions for apparatus in hazardous areas.
- The classification and marking of the device must be suitable for the application.
- Adhere to the respective national regulations and provisions as well as the relevant installation regulations.
- Observe applicable documents.

2 Intended use

Use in hazardous areas according to the classification:

ATEX classification	Identification	Permissible ambient temperature
 II 1G	Ex ia IIB T6 Ga	Ta -20...60°C
 II 1D	Ex ia IIIC T ₂₀₀ 90°C Da	Ta -20...60°C

Type examination certificate:

- DMT 01 ATEX E020 X
- IEC: IECEx BVS 06.0003X

The requirements of the following standards are met:

- EN IEC 60079-0:2018, EN 60079-11:2012
- IEC 60079-0:2017, IEC 60079-11:2011

Connection only to intrinsically safe circuits which are approved with the type examination certificate and do not exceed the following maximum values:

U _i = 15 V, I _i = 50 mA, P _i = 120 mW
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Maximum effective internal inductance (L_i) and capacitance (C_i):

KI5030:

L _i = 1 µH, C _i = 375 nF
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KI5031:

L _i = 3 µH, C _i = 375.64 nF

3 Installation

- ▶ Protect device and cable against destruction.
- ▶ Avoid electrostatic charging on plastic housings and cables.
- ▶ Do not install the device in the partition between different zones.

3.1 Special conditions for safe operation

- ▶ Always refer to the operating instructions for the identification, as it may not be fully applied to the device due to lack of space.

4 Maintenance, repair and disposal

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

If needed, data sheets and type examination certificates or other certificates can be requested from the manufacturer (→ cover sheet / back).