ifm electronic

CE

Operating instructions
(Safety-related part ATEX / IECEx)
Inductive NAMUR sensors

UK

NE**/ NF****/ NG****/ NI****/ NN****/ NT****/ NS****

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Remarks for safe use in hazardous areas

Functions and features

- Use in hazardous areas according to the classification
  II 1G / 2G (group II, category 1G / 2G, apparatus for gas atmosphere).
  The requirements of the standards EN 60079-0:2009, EN 60079-11:2012, EN 60079-26:2007+Corr.2009 are met.
  EC type examination certificate

PTB 01 ATEX 2191

- Use in hazardous areas according to the classification
  II 1D (group II, category 1D, apparatus for dust atmosphere).
  The requirements of the standards IEC 60079-0:2011 and EN 60079-11:2012 are met.
  EC type examination certificate

BVS 04 ATEX E153

The requirements of the standards IEC 60079-0:2011+Corr.2012+Corr.2013 and IEC 60079-11:2011+Corr.2012 are met.

IECEx certificate

IECEx BVS 06.0003

- Marking

ATEX classification	Marking	Ta in °C	Applies to type
Ex II 1G	Ex ia IIC T6 Ga	Ta -20...70 °C	NT**** NE**** NF****
Ex II 1D	Ex ia IIIC T 90°C Da		
Ex II 1G	Ex ia IIC T5 Ga	Ta -20...80 °C	
Ex II 1D	Ex ia IIIC T 100°C Da		
Ex II 1G	Ex ia IIB T6 Ga	Ta -20...70 °C	NG**** NI**** NN**** NS****
Ex II 2G	Ex ia IIC T6 Gb		
Ex II 1D	Ex ia IIIC T 90°C Da		
Ex II 1G	Ex ia IIB T5 Ga	Ta -20...80 °C	
Ex II 2G	Ex ia IIC T5 Gb		
Ex II 1D	Ex ia IIIC T100°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 types of protection, 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 certified circuits or evaluation amplifiers which do not exceed the following maximum values of the units:

Ui = 15 V, Ii = 50 mA, Pi = 120 mW

- Permissible operating temperature of the application (referred to the maximum permissible power of 120 mW):

according to marking

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

Article no.	Internal inductance (total) in µH	Internal capacitance (total) in nF
NE5001	70	80
NE5012	87	83
NF5001	340	140
NF5002	340	140
NF5003	130	140
NF5004	130	140
NF5008	134	141
NF5010	134	141
NF5012	344	141
NF5023	147	143
NF5030	134	141
NG5001	45	145
NG5002	45	145
NG5003	50	155
NG5004	50	155
NG5010	58	157
NG5011	53	147
NG5016	62	157
NG5019	49	146
NG5021	54	156

Article no.	Internal inductance (total) in µH	Internal capacitance (total) in nF
NI5001	140	145
NI5002	140	145
NI5003	110	145
NI5004	110	145
NI5011	118	147
NI5012	148	147
NN5001	135	110
NN5002	135	110
NN5020	143	112
NS5002	110	80
NT5001	70	80
NT5005	74	81

Installation remarks / Installation

- Adhere to the relevant 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 walls which separate zone 0 from zone 1.
- The relevant installation regulations must be adhered to.
- The equalisation of potential of metal housing parts must be ensured by appropriate mounting.

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 examination certificates from the manufacturer (see cover sheet / back).
You can find the IECEx online certificate at www.iecex.com.