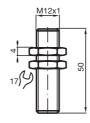
Inductive proximity switches

Comfort series 2 mm embeddable

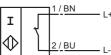


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Switching element function	NAMUR NC
Rated operating distance s _n	2 mm
Installation	embeddable
Assured operating distance s _a	0 1,62 mm
Reduction factor r _{Al}	0,4
Reduction factor r _{Cu}	0,3
Reduction factor r _{V2A}	0,85
Nominal voltage U _o	8 V
Operating voltage U _B	5 25 V
Switching frequency f	0 2000 Hz
Hysteresis H	3 %
Current consumption	
Measuring plate not detected	Ø3 mA
Measuring plate detected	Ω1 mA
EMC in accordance with	EN 60947-5-2
Standards	DIN EN 60947-5-6 (NAMUR)
Ambient temperature	-25 100 °C (248 373 K)
Connection type	V1-connector
Housing material	high grade steel
Sensing face	PBT
Protection degree	IP67
Use in the hazardous area	see instruction manuals
Category	1G; 2G

Connection_type:





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2003-07-22

Instruction

Device category 1G Directive conformity Standard conformity

CE symbol

Ex-identification

EC-Type Examination Certificate

Assigned type

Effective internal capacitance Ci Effective internal inductance Li

General

Highest permissible ambient temperature

Installation, Comissioning

Maintenance

Special conditions

Protection from mechanical danger

Electrostatic charging

Manual electrical apparatus for hazardous areas

BR for use in hazardous areas with gas, vapour and mist

94/9/EG

EN 50014:1997; EN 50020:1994; EN 50284:1999

Ignition protection "Intrinsic safety"
Use is restricted to the following stated conditions

C€ 0102

II 1G EEx ia IIC T6

PTB 00 ATEX 2048 X

NJ 2-12GM-N...

 $\Omega 30~\text{nF}$; a cable length of 10 m is considered. $\Omega50~\sigma H$; a cable length of 10 m is considered.

The apparatus has to be operated according to the appropriate data in the data sheet and in this

instruction manual.

The EU prototype test certificate must be observed. The special conditions must be adhered to!

The temperature ranges, according to temperature class, are given in the EU prototype test certificate. Note: Use the temperature table for category 1 !!! The 20 % reduction in accordance with EN 1127-1:1997 has already been accounted for in the temperature table for category 1.

Laws and/or regulations and standards governing the use or intended usage goal must be observed. The intrinsic safety is only assured in connection with an appropriate related apparatus and according to the proof of intrinsic safety. The associated apparatus must satisfy the requirements of category "ia" and have galvanic isolation between the power supply and signal circuits.

The sensor must be protected from strong electromagnetic fields.

No changes can be made to apparatus, which are operated in hazardous areas. Repairs to these apparatus are not possible.

The sensor must be protected from mechanical damage.

Electrostatic charges must be avoided on the mechanical housing components. Dangerous electrostatic charges on the mechanical housing components can be avoided by incorporating these in the equipotential bonding.

Inductive proximity switches

Instruction

Device category 2G

Directive conformity Standard conformity

CE symbol

Ex-identification

EC-Type Examination Certificate

Assigned type

Effective internal capacitance C_i Effective internal inductance L_i

General

Highest permissible ambient temperature

Installation, Comissioning

Maintenance

Special conditions

Protection from mechanical danger

Electrostatic charging

Manual electrical apparatus for hazardous areas

for use in hazardous areas with gas, vapour and mist

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NJ 2-12GM-N...

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