Instruction manual

Marking

Inductive sensor
NCB2-12GMS5-NO-V1
181099
Pepperl+Fuchs GmbH
Lilienthalstraße 200, 68307 Mannheim, Germany

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<th>Range of application</th>
<th>Certification</th>
<th>Group, category, type of protection</th>
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<tr>
<td>ATEX 1G</td>
<td>PTB 00 ATEX 2048 X</td>
<td>ⅡII G Ex ia IIC T6…T1 Ga The Ex-related marking can also be printed on the enclosed label.</td>
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<tr>
<td>ATEX 2G</td>
<td>PTB 00 ATEX 2048 X</td>
<td>ⅡII G Ex ia IIC T6…T1 Ga The Ex-significant identification is on the enclosed adhesive label</td>
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<tr>
<td>ATEX 3G (ic)</td>
<td>PF 13 CERT 2895 X</td>
<td>ⅡII G Ex ia IIC T6…T1 Ga The Ex-significant identification is on the enclosed adhesive label</td>
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<tr>
<td>ATEX 1D</td>
<td>PTB 00 ATEX 2048 X</td>
<td>ⅡI 1D Ex ia IIC T135°C Da The Ex-related marking can also be printed on the enclosed label.</td>
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Validity
Specific processes and instructions in this document require special precautions to guarantee the safety of the operating personnel.

Target group, personnel
Responsibility for planning, assembly, commissioning, operation, maintenance, and dismounting lies with the plant operator.
Mounting, installation, commissioning, operation, maintenance and disassembly of any devices may only be carried out by trained, qualified personnel. The instruction manual must be read and understood.

Reference to further documentation
Observe laws, standards, and directives applicable to the intended use and the operating location. Observe Directive 1999/92/EC in relation to hazardous areas. The corresponding datasheets, declarations of conformity, EC-type-examination certificates, certificates and control drawings if applicable (see datasheet) are an integral part of this document. You can find this information under www.pepperl-fuchs.com.
Due to constant revisions, documentation is subject to permanent change. Please refer only to the most up-to-date version, which can be found under www.pepperl-fuchs.com.

Intended use
The device is only approved for appropriate and intended use. Ignoring these instructions will void any warranty and absolve the manufacturer from any liability.

Range of application
Manual electrical apparatus for hazardous areas

Range of application 1D
for use in hazardous areas with combustible dust
Range of application 1G
for use in hazardous areas with gas, vapour and mist
Range of application 2G
for use in hazardous areas with gas, vapour and mist
Range of application 3G (ic)
for use in hazardous areas with gas, vapour and mist

Improper use
Protection of the personnel and the plant is not ensured if the product is not being used according to its intended use.

Mounting and installation
Prior to mounting, installation and commissioning of the device you should make yourself familiar with the device and carefully read the instruction manual.
Mount the device so that it is not exposed to any mechanical hazard. For example, mount the device in a protective housing.

Range of application 1D
Protection from mechanical danger
When using the device in a temperature range of -60 °C to -20 °C, protect the sensor against the effects of impact by installing an additional enclosure. The information regarding the minimum ambient temperature for the sensor as provided in the datasheet must also be observed.

Electrostatic charge
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.

Range of application 3G (ic)
Protection from mechanical danger
When using the device in a temperature range of -60 °C to -20 °C, protect the sensor against the effects of impact by installing an additional enclosure. The information regarding the minimum ambient temperature for the sensor as provided in the datasheet must also be observed.

Electrostatic charge
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.

Range of application 2G
Protection from mechanical danger
When using the device in a temperature range of -60 °C to -20 °C, protect the sensor against the effects of impact by installing an additional enclosure. The information regarding the minimum ambient temperature for the sensor as provided in the datasheet must also be observed.

Electrostatic charge
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.

Range of application 1G
Protection from mechanical danger
When using the device in a temperature range of -60 °C to -20 °C, protect the sensor against the effects of impact by installing an additional enclosure. The information regarding the minimum ambient temperature for the sensor as provided in the datasheet must also be observed.

Electrostatic charge
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.

Range of application 2G
Protection from mechanical danger
When using the device in a temperature range of -60 °C to -20 °C, protect the sensor against the effects of impact by installing an additional enclosure. The information regarding the minimum ambient temperature for the sensor as provided in the datasheet must also be observed.

Electrostatic charge
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.

Connection parts
The connection parts are to be installed, such that a minimum protection class of IP20 is achieved, in accordance with IEC 60529.

Operation, maintenance, repair
The device must not be repaired, changed or manipulated.
In the event of a fault, always return the device to Pepperl+Fuchs.
If there is a defect, the device must always be replaced with an original device from Pepperl+Fuchs.

Delivery, transport, disposal
Check the packaging and contents for damage.
Check if you have received every item and if the items received are the ones you ordered.
Keep the original packaging. Always store and transport the device in the original packaging.
Store the device in a clean and dry environment. The permitted ambient conditions (see datasheet) must be considered.
Disposing of device, packaging material, and possibly contained batteries must be in compliance with the applicable laws and guidelines of the respective country.