# **Instruction Manual**

# 1. Marking

Inductive sensor

RC10-14-N3-Y95216

ATEX marking

(a) II 2G Ex ia IIC T6...T1 Gb

IECEx marking

Pepperl+Fuchs Group

Lilienthalstraße 200, 68307 Mannheim, Germany

Internet: www.pepperl-fuchs.com

The certificate may contain several Ex markings. Depending on the respective device, the Ex markings specified in the certificate may be only partially valid. You will find the Ex markings valid for the device on the respective nameplate or in this document.

### 2. Validity

Specific processes and instructions in this instruction manual require special provisions to guarantee the safety of the operating personnel.

## 3. Target Group, Personnel

Responsibility for planning, assembly, commissioning, operation, maintenance, and dismounting lies with the plant operator.

The personnel must be appropriately trained and qualified in order to carry out mounting, installation, commissioning, operation, maintenance, and dismounting of the device. The trained and qualified personnel must have read and understood the instruction manual.

#### 4. 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, manuals, declarations of conformity, EU-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.

For specific device information, scan the QR code on the device or enter the serial number in the serial number search at 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.

## 5. 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.

Technical data provided in the datasheet may be partly restrained by the information given in this instruction manual.

Use the device only within the specified ambient and operating conditions. The device is an electrical apparatus for hazardous areas.

The certificate applies only to the use of apparatus under atmospheric conditions

If you use the device outside atmospheric conditions, consider that the permissible safety parameters should be reduced.

The device can be used in hazardous areas containing gas, vapor, and mist.

### 5.1. Requirements for Equipment Protection Level Gb

Refer to the relevant certificate to see the relationship between the connected circuit type, the maximum permitted ambient temperature, the effective inner reactances, and if applicable the surface temperature or the temperature class.

The suitability for use of the device at ambient temperatures >60 °C in conjunction with hot surfaces has been checked by the notified body.

# 6. Improper Use

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

# 7. Mounting and Installation

Observe the installation instructions according to IEC/EN 60079-14. Safety-relevant markings are found on the nameplate of the device or the nameplate supplied.

Attach the nameplate supplied in the immediate vicinity of the device. Attach the nameplate so that it is legible and indelible. Take the ambient conditions into account.

Do not mount a damaged or polluted device.

Mount the device so that it complies with the specified degree of protection according to IEC/EN 60529.

If you use the device in environments subject to adverse conditions, you must protect the device accordingly.

Do not remove the warning markings.

# 7.1. Requirements for Usage as Intrinsically Safe Apparatus

When connecting intrinsically safe devices with intrinsically safe circuits of associated apparatus, observe the maximum peak values with regard to explosion protection (verification of intrinsic safety). Observe the standards IEC/EN 60079-14 or IEC/EN 60079-25.

The type of protection is determined by the connected intrinsically safe circuit.

#### 7.2. Specific Conditions of Use

Mount the device so that it complies with the specified degree of protection according to IEC/EN 60529.

#### 7.2.1. Requirements in Relation to Electrostatics

Information on electrostatic hazards can be found in the technical specification IEC/TS 60079-32-1.

Do not mount the supplied nameplate in areas that can be electrostatically charged.

You can reduce the electrostatic hazards by minimizing the generation of static electricity. For example, you have the following options to minimize the generation of static electricity:

- · Control the environmental humidity.
- Protect the device from direct airflow.
- Ensure a continuous drain off of the electrostatic charges.

#### 7.2.2. Requirements to Mechanics

### 7.2.2.1. Requirements for Usage as Intrinsically Safe Apparatus

Mount the device in such a way that the bare casting resin surface is not exposed to mechanical hazards.

Protect the device from impact effects by mounting in a surrounding enclosure if it is used in the temperature range between the minimum permissible ambient temperature and -20  $^{\circ}$ C.

Mount the device with at least a degree of protection of IP20 according to IEC/EN 60529.

# 8. Operation, Maintenance, Repair

Observe the specific conditions of use.

Safety-relevant markings are found on the nameplate of the device or the nameplate supplied.

Do not use a damaged or polluted device.

Do not repair, modify, or manipulate the device.

Modifications are permitted only if approved in this instruction manual and in the device-related documentation.

If there is a defect, always replace the device with an original device.

Do not remove the warning markings.

# 8.1. Requirements for Usage as Intrinsically Safe Apparatus

Only operate the device with intrinsically safe circuits according to IEC/EN 60079-11.

The type of protection is determined by the connected intrinsically safe circuit.

### 8.2. Requirements for Equipment Protection Level Gb

Observe the temperature table for the corresponding equipment protection level in the certificate.

Also observe the maximum permissible ambient temperature stated in the technical data. Keep to the lower of the two values.

# 9. 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 must be considered, see datasheet.

The device, built-in components, packaging, and any batteries contained within must be disposed in compliance with the applicable laws and guidelines of the respective country.

# 10. National Ex approvals

IA "i": MASC S/17-2201X

# 11. Safety-Relevant Technical Data



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# 11.1. Equipment protection level Gb

CE marking Centificates  Appropriate type ATEX certificate  ATEX marking ATEX standards  EN IEC 60079-0:2018-07, EN 60079-11:2012-01  Effective internal capacitance C₁  Acable length of 10 m is considered.  Effective internal inductance L₁  Maximum permissible ambient temperature in °C  Effective internal inductance C₁  Also observe the maximum permissible ambient temperature stated in the general technical data. Keep to the lower of the two values.  U₁ = 16 V, I₁ = 25 mA, P₁ = 34 mW  T6: 75 °C  T5: 90 °C  T4: 100 °C  T2: 100 °C  T3: 100 °C  T4: 100 °C  T5: 85 °C  T4: 100 °C  T5: 90 °C  T4: 100 °C  T5: 100 °C  T6: 100 °C  T6: 100 °C  T7: 100 °C  T6: 100 °C  T7: 100 °C  T6: 100 °C  T7: 100 °C		
Appropriate type Appropriate type ATEX certificate ATEX marking ATEX standards  BI I2G Ex ia IIC T6T1 Gb  ATEX standards  EN IEC 60079-0:2018-07, EN 60079-11:2012-01  Effective internal capacitance C <sub>i</sub> Effective internal inductance L <sub>i</sub> Maximum permissible ambient temperature in °C ambient temperature stated in the general technical data. Keep to the lower of the two values.  U <sub>i</sub> = 16 V, I <sub>i</sub> = 25 mA, P <sub>i</sub> = 34 mW T6: 75 °C T5: 90 °C T4: 100 °C T2: 100 °C T3: 100 °C T4: 100 °C T3: 100 °C T4: 100 °C T5: 85 °C T4: 100 °C T5: 85 °C T4: 100 °C T5: 100 °C T6: 100 °C T7: 100 °C	Type of protection	Intrinsic safety
Appropriate type ATEX certificate PTB 99 ATEX 2128 X  ATEX marking  BI 2G Ex ia IIC T6T1 Gb  ATEX standards  EN IEC 60079-0:2018-07, EN 60079-11:2012-01  Effective internal capacitance C <sub>i</sub> max. 90 nF A cable length of 10 m is considered.  Maximum permissible ambient temperature in °C  Also observe the maximum permissible ambient temperature stated in the general technical data. Keep to the lower of the two values.  U <sub>i</sub> = 16 V, I <sub>i</sub> = 25 mA, P <sub>i</sub> = 34 mW T6: 75 °C T5: 90 °C T4: 100 °C T1: 100 °C T2: 100 °C T1: 100 °C T3: 100 °C T4: 100 °C T5: 85 °C T4: 100 °C T6: 90 °C T6: 90 °C T7: 100 °C	CE marking	<b>C€</b> -0102
ATEX certificate  PTB 99 ATEX 2128 X  ATEX marking  © II 2G Ex ia IIC T6T1 Gb  EN IEC 60079-0:2018-07, EN 60079-11:2012-01  Effective internal capacitance C₁  Effective internal inductance L₁  Maximum permissible ambient temperature in °C  Maximum permissible arbient temperature in °C  T1: 100 °C  T1: 100 °C  T2: 100 °C  T4: 100 °C  T5: 85 °C  T4: 100 °C  T5: 90 °C  T4: 100 °C  T5: 100 °C  T6: 70 °C  T7: 100 °C	Certificates	
ATEX marking  ATEX standards  EN IEC 60079-0:2018-07, EN 60079-11:2012-01  Effective internal capacitance C <sub>i</sub> Effective internal inductance L <sub>i</sub> Maximum permissible ambient temperature in °C  Also observe the maximum permissible ambient temperature stated in the general technical data. Keep to the lower of the two values.  U <sub>i</sub> = 16 V, I <sub>i</sub> = 25 mA, P <sub>i</sub> = 34 mW  T6: 75 °C  T5: 90 °C  T4: 100 °C  T2: 100 °C  T3: 100 °C  T4: 100 °C  T5: 85 °C  T4: 100 °C  T5: 85 °C  T4: 100 °C  T1: 100 °C  T2: 100 °C  T3: 100 °C  T4: 100 °C  T5: 85 °C  T4: 100 °C  T5: 90 °C  T4: 100 °C  T5: 85 °C  T4: 100 °C  T5: 90 °C  T4: 100 °C  T5: 85 °C  T4: 100 °C  T5: 90 °C  T6: 70 °C  T7: 100 °C	Appropriate type	RC10N3
ATEX standards  EN IEC 60079-0:2018-07, EN $60079-11:2012-01$ Effective internal capacitance $C_i$ max. 90 nF A cable length of 10 m is considered.  Effective internal inductance $L_i$ max. 120 $\mu$ H A cable length of 10 m is considered.  Maximum permissible ambient temperature in °C  Also observe the maximum permissible ambient temperature stated in the general technical data. Keep to the lower of the two values. $U_i = 16 \text{ V}, \ l_i = 25 \text{ mA}, \ P_i = 34 \text{ mW}$ $T6: 75 \text{ °C}$ $T5: 90 \text{ °C}$ $T4: 100 \text{ °C}$ $T1: 100 \text{ °C}$ $T2: 100 \text{ °C}$ $T4: 100 \text{ °C}$ $T3: 100 \text{ °C}$ $T4: 100 \text{ °C}$ $T5: 85 \text{ °C}$ $T4: 100 \text{ °C}$ $T5: 85 \text{ °C}$ $T5: 70 \text{ °C}$ $T5: 90 \text{ °C}$	ATEX certificate	PTB 99 ATEX 2128 X
Effective internal capacitance $C_i$ max. $90 \text{ nF}$ A cable length of $10 \text{ m}$ is considered.  Effective internal inductance $L_i$ max. $120 \mu\text{H}$ A cable length of $10 \text{ m}$ is considered.  Maximum permissible ambient temperature in °C  Also observe the maximum permissible ambient temperature stated in the general technical data. Keep to the lower of the two values. $U_i = 16 \text{ V}, \ I_i = 25 \text{ mA}, \ P_i = 34 \text{ mW}$ $T_6: 75 \text{ °C}$ $T_5: 90 \text{ °C}$ $T_4: 100 \text{ °C}$ $T_2: 100 \text{ °C}$ $T_1: 100 \text{ °C}$ $T_2: 100 \text{ °C}$ $T_3: 100 \text{ °C}$ $T_4: 100 \text{ °C}$ $T_5: 85 \text{ °C}$ $T_4: 100 \text{ °C}$ $T_5: 85 \text{ °C}$ $T_6: 100 \text{ °C}$	ATEX marking	🖫 II 2G Ex ia IIC T6T1 Gb
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inductance $L_i$ A cable length of 10 m is considered.  Maximum permissible ambient temperature in °C  Also observe the maximum permissible ambient temperature stated in the general technical data. Keep to the lower of the two values. $U_i = 16 \text{ V}, \ l_i = 25 \text{ mA}, \ P_i = 34 \text{ mW}$ $T_6: 75 \text{ °C}$ $T_5: 90 \text{ °C}$ $T_4: 100 \text{ °C}$ $T_2: 100 \text{ °C}$ $T_1: $		A cable length of 10 m is considered.
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T4: 100 °C  T3: 100 °C  T2: 100 °C  T1: 100 °C  U <sub>i</sub> = 16 V, I <sub>i</sub> = 25 mA, P <sub>i</sub> = 64 mW  T6: 70 °C  T5: 85 °C  T4: 100 °C  T3: 100 °C  T2: 100 °C  T1: 100 °C  U <sub>i</sub> = 16 V, I <sub>i</sub> = 52 mA, P <sub>i</sub> = 169 mW  T6: 55 °C  T4: 90 °C  T3: 90 °C  T2: 90 °C		T6: 75 °C
T3: $100 ^{\circ}\text{C}$ T2: $100 ^{\circ}\text{C}$ T1: $100 ^{\circ}\text{C}$ U <sub>i</sub> = $16  \text{V}$ , $I_i$ = $25  \text{mA}$ , $P_i$ = $64  \text{mW}$ T6: $70 ^{\circ}\text{C}$ T5: $85 ^{\circ}\text{C}$ T4: $100 ^{\circ}\text{C}$ T3: $100 ^{\circ}\text{C}$ T2: $100 ^{\circ}\text{C}$ T1: $100 ^{\circ}\text{C}$ U <sub>i</sub> = $16  \text{V}$ , $I_i$ = $52  \text{mA}$ , $P_i$ = $169  \text{mW}$ T6: $55 ^{\circ}\text{C}$ T5: $70 ^{\circ}\text{C}$ T4: $90 ^{\circ}\text{C}$ T3: $90 ^{\circ}\text{C}$ T2: $90 ^{\circ}\text{C}$		T5: 90 °C
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$U_i$ = 16 V, $I_i$ = 25 mA, $P_i$ = 64 mW T6: 70 °C T5: 85 °C T4: 100 °C T3: 100 °C T2: 100 °C T1: 100 °C $U_i$ = 16 V, $I_i$ = 52 mA, $P_i$ = 169 mW T6: 55 °C T5: 70 °C T4: 90 °C T3: 90 °C T2: 90 °C		T2: 100 °C
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T3: 100 °C  T2: 100 °C  T1: 100 °C  U <sub>i</sub> = 16 V, I <sub>i</sub> = 52 mA, P <sub>i</sub> = 169 mW  T6: 55 °C  T5: 70 °C  T4: 90 °C  T3: 90 °C  T2: 90 °C		T5: 85 °C
T2: $100 ^{\circ}\text{C}$ T1: $100 ^{\circ}\text{C}$ U <sub>i</sub> = $16  \text{V}$ , I <sub>i</sub> = $52  \text{mA}$ , P <sub>i</sub> = $169  \text{mW}$ T6: $55 ^{\circ}\text{C}$ T5: $70 ^{\circ}\text{C}$ T4: $90 ^{\circ}\text{C}$ T3: $90 ^{\circ}\text{C}$ T2: $90 ^{\circ}\text{C}$		T4: 100 °C
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T5: 70 °C T4: 90 °C T3: 90 °C T2: 90 °C		$U_i = 16 \text{ V}, I_i = 52 \text{ mA}, P_i = 169 \text{ mW}$
T4: 90 °C T3: 90 °C T2: 90 °C		T6: 55 °C
T4: 90 °C T3: 90 °C T2: 90 °C		T5: 70 °C
T2: 90 °C		T4: 90 °C
		T3: 90 °C
		T2: 90 °C
T1: 90 °C		T1: 90 °C

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