IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx KEM 06.0036X**

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Status: **Current**

Issue No: 7

Date of Issue: 2023-06-08

Applicant: **Hans Turck GmbH & Co. KG**
Witzlebenstraße 7
45472 Mülheim an der Ruhr
Germany

Equipment: **Two Wire Proximity Sensors Types ...-....-Y1.-...../....**

Optional accessory:

Type of Protection: **Intrinsic Safety**

Marking: Ex ia IIC T4 ... T6 Ga or
Ex ia IIC T4 ... T6 Gb and/or
Ex ia IIIC T95 °C or T115 °C Db or
Ex ia IIIC T_{200} 135 °C Da

Certificate history:

Issue 6 (2022-02-07)
Issue 5 (2021-06-15)
Issue 4 (2016-04-08)
Issue 3 (2013-05-24)
Issue 2 (2010-12-31)
Issue 1 (2008-12-18)
Issue 0 (2006-12-18)

Approved for issue on behalf of the IECEx Certification Body: **R. Schuller**

Position: **Certification Manager**

Signature: (for printed version)

Date: (for printed version) 2023-06-08

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.

Certificate issued by:

DEKRA Certification B.V.
Meander 1051
6825 MJ Arnhem
Netherlands

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Manufacturer: **Hans Turck GmbH & Co KG**
Witzlebenstraße 7, 45472 Mülheim an der Ruhr
Germany

Manufacturing locations:

TURCK Beierfeld GmbH
Am Bockwald 2
08344 Grünhain-Beierfeld
Germany

Turck Automation Technology Sp. Z.o.o
Erazma Plewinskiego 18
20-277 Lublin
Poland

Interprox SA
Rue du Stand 63
Delémont 2800
Switzerland

See following pages for more locations

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements.This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :
The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

NL/KEM/ExTR06.0032/06

Quality Assessment Report:

DE/PTB/QAR06.0013/10

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

Two Wire Proximity Sensors Type ...-….-.Y1.-….. / …. are used for initiation of signalling or switching functions on a preset distance value being reached.

The model code of the range of Two Wire Proximity Sensors Type ...-….-.Y1.-….. / …. is characterised as shown in table 1 of annex 1.

The range of Two Wire Proximity Sensors Type ...-….-.Y1.-….. / …. consists of various constructional variants classified into ten Type Groups.

The identification of the applicable Type Group is related to the Constructional Variant and can be determined from table 15.1 of annex 1.

Only the Constructional Variants shown in table 15.2 of annex 1 are of Equipment Protection Level (EPL) Ga.

The temperature class of the different Sensor models, depending on ambient temperature, Ii and Pi, can be determined from tables 15.4, 15.6, 15.8, 15.10 and 15.12 (see annex 1), using table 15.1 in annex 1 for the type group designation.

SPECIFIC CONDITIONS OF USE: YES as shown below:
Ambient temperature range -25 °C … +70 °C for all models, with the exceptions shown in table 15.3 of annex 1.

For use in an area requiring equipment with EPL Ga:
If part of the enclosure is made of plastic and the projected surface area is greater than 4 cm² for apparatus of group IIC, 25 cm² for apparatus of group IIB or 50 cm² for apparatus of group IIA, the sensor is accompanied with a warning to avoid static charging. In this case, precautions have to be taken that the risk of electrostatic charging of the enclosure is excluded.

For use in an area requiring equipment with EPL Gb, for group IIC:
If part of the enclosure is made of plastic and the projected surface area is greater than 20 cm², the sensor is accompanied with a warning to avoid static charging. In this case precautions have to be taken that the risk of electrostatic charging of the enclosure is excluded.

The Two Wire Proximity Sensors used in a potentially explosive atmospheres caused by the presence of combustible dust, must be mounted in such a way that they are protected against impact.

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Equipment (continued):

For potentially explosive atmospheres caused by the presence of combustible dust with ambient temperatures up to 70 °C, for EPL Db the maximum surface temperature for the Two Wire Proximity Sensors in Type Groups AX and GX is 115 °C and for all other Two Wire Proximity Sensors is 95 °C, for EPL Da the maximum surface temperature for all sensor Type groups is 135 °C.

Electrical data
See annex 1.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
Additional manufacturing location.

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Additional manufacturing locations:

Werner Turck GmbH & Co. KG
Goethestraße 7
58553 Halver
Germany

Turck (Tianjin) Technology Co. Ltd.
No.23 Hongyuan Road, Xiqing District
Tianjin, 300381
China

Annex:

226336400-Annex to IECEx KEM 06.0036X Issue 6.pdf