



# 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](http://www.iecex.com)

Certificate No.:	<b>IECEx IBE 16.0007</b>	Page 1 of 4	<u>Certificate history:</u>
Status:	<b>Current</b>	Issue No: 3	Issue 2 (2022-01-13)
Date of Issue:	2022-08-17		Issue 1 (2020-09-02)
Applicant:	<b>Hans Turck GmbH &amp; Co.KG</b> Witzlebenstr. 7 45472 Mülheim an der Ruhr Germany		Issue 0 (2016-04-28)
Equipment:	<b>Cabinet Condition Monitoring (CCM)</b>		
Optional accessory:	IMX12 CCM		
Type of Protection:	<b>Intrinsic safety "i"</b>		
Marking:	Ex ib op is IIC T4 Gb		

Approved for issue on behalf of the IECEx  
Certification Body:

**Kai Willamowski**

Position:

**Head of department Certification Body**

Signature:  
(for printed version)

Date:  
(for printed version)

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Certificate issued by:

**IBExU Institut für Sicherheitstechnik GmbH**  
Fuchsmühlenweg 7  
09599 Freiberg  
Germany





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

Manufacturing locations: **TURCK Beierfeld GmbH**  
Am Bockwald 2  
08344 Grünhain-Beierfeld  
**Germany**

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

[IEC 60079-28:2015](#) Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation  
Edition:2

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 Reports:

[DE/IBE/ExTR16.0006/00](#)  
[DE/IBE/ExTR16.0006/03](#)

[DE/IBE/ExTR16.0006/01](#)

[DE/IBE/ExTR16.0006/02](#)

Quality Assessment Report:

[DE/PTB/QAR06.0013/08](#)



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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

The Cabinet Condition Monitoring (CCM) type IMX12 CCM serves for the control cabinet supervision for compliance with specified limit parameters. In over / underflow an error condition on the display / switching output or via the communication interface to the higher field level is delivered. The aim is to supply 20mA loop powered up from the HART interface. All connections are intrinsically safe.

## **Technical data**

Ambient temperature range: -25 °C to +70 °C

## **Electrical data**

Supply circuit E1 in type of protection intrinsic safety Ex ib IIC

Terminals X11: 15+, 16-

$U_i$  28 V DC

$I_i$  100 mA

$P_i$  700 mW

effective internal capacitance

$C_i$  29,5 nF

effective internal inductance

$L_i$  300  $\mu$ H

Output circuits A1 and A2 in type of protection intrinsic safety Ex ib IIC

Terminals X14: 9, 10 and X13: 11, 12

$U_i$  30 V DC

$I_i$  100 mA

$P_i$  750 mW

$R_i$  22  $\Omega$

effective internal capacitance

$C_i$  11 nF

effective internal inductance

$L_i$  negligible

Signal circuit E2 (reed contact) in type of protection intrinsic safety Ex ib IIC

Terminals X23: 5, 6

$U_o$  5 V DC

$I_o$  1 mA

$P_o$  1,25 mW

effective internal capacitance

$C_i$  negligible

effective internal inductance

$L_i$  300  $\mu$ H

**SPECIFIC CONDITIONS OF USE: NO**



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## **DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**

- The electronic circuitry, including the layout and part list, has been completely revised.
- The intrinsically safe characteristic values have been changed.
- The ambient temperature range has been extended to +70 °C.