



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 CSA 24.0002X**

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Certificate history:

Status: **Current**

Issue No: 1

[Issue 0 \(2024-02-02\)](#)

Date of Issue: 2025-09-19

Applicant: **Endress+Hauser SICK GmbH+Co. KG**
Bergener Ring 27
01458 Ottendorf-Okrilla
Germany

Equipment: **Bluetooth Dongle, Model CDBT100**

Optional accessory:

Type of Protection: **Intrinsic Safety "ia"**

Marking: **Ex ia IIC T4 Ga**

Approved for issue on behalf of the IECEx
Certification Body:

Dave Magee

Position:

Senior Director of Operations

Signature:
(for printed version)

Date:
(for printed version)

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:

CSA Group
178 Rexdale Boulevard
Toronto, Ontario M9W 1R3
Canada





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Manufacturer: **Endress+Hauser SICK GmbH+Co. KG**
Bergener Ring 27
01458 Ottendorf-Okrilla
Germany

Manufacturing locations: **Endress+Hauser SICK GmbH+Co. KG**
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01458 Ottendorf-Okrilla
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

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:

[CA/CSA/ExTR24.0009/00](#)

[CA/CSA/ExTR24.0009/01](#)

Quality Assessment Report:

[DE/TUN/QAR09.0005/13](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Model CDBT100 is an attachable Bluetooth Dongle device which provides a Rx/D/TxD Bluetooth Low Energy Radio Communication Interface, with a host device, to which it is connected by electrical connection. It includes a two-part assembly of enclosure, flat and shaped part, housing a PCB with soldered electronic components. Flat portion is provided with threaded sleeve M12 connector with collar. PCB is mounted onto the flat part and secured with a solder at the internal portion of the connector, which penetrates the flat part of the enclosure. Device is intended for a connection to, and to be powered from, a host equipment, Endress+Hauser SICK Flowmeter e. g. FLOWSIC550 by means of a M12 connector which is a 4 pole A-coded.

Ambient Temperature Range: -40 °C to +70 °C

Entity Parameters

M12 Plug connector:

For connection to intrinsically safe circuit, in type of protection Ex ia IIA/IIB/IIC, maximum values:

$U_i = 14 \text{ V}$ gas group IIA; $= 10.5 \text{ V}$ gas group IIB; 6.9 V gas group IIC

$I_i = 500 \text{ mA}$

$P_i = 900 \text{ mW}$

$C_i = 16.74 \mu\text{F}$

$L_i = 2.65 \mu\text{H}$

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Apparatus is allowed to be used in gas group IIA or IIB or IIC depending on the entity parameters in the intrinsically safe circuit connected to M12 plug.
2. Temperature at the point of connection of M12 plug shall not exceed allowed ambient temperature range.
3. Apparatus is designated for use in ambient temperature range from -40 °C to + 70 °C.
4. The resistance of M12 connector metallic collar to earth shall not exceed 1 GΩ measured at (500 +/-25) Vdc, when installed onto the host device.
5. Plastic parts of the electronics enclosure: Under certain extreme circumstances, in Gas Group IIC, exposed plastic and unearthed metal parts of the enclosure may store an ignition-capable level of electrostatic charge. Therefore, the user / installer shall implement precautions to prevent the buildup of electronics charge, e. g. locate the equipment where a charge-generating mechanism (such as wind-blown dust) is unlikely to be prevent and clean with a damp cloth.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1 – this Issue introduced the following changes:

1. To change the applicant / manufacturer name from SICK Engineering GmbH to Endress+Hauser SICK GmbH+Co. KG