



## EU-TYPE EXAMINATION CERTIFICATE

- 1
- 2 Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014
- 3 EU-Type Examination Certificate Number: **CSANe 24ATEX1171X** Issue: **0**
- 4 Equipment: **Connection device for commissioning and service, Model: CDUSB100**
- 5 Manufacturer: **Endress+Hauser SICK GmbH+Co. KG**
- 6 Address: **Bergener Ring 27  
01458 Ottendorf-Okrilla  
Germany**
- 7 This product and any acceptable variation thereto, is specified in the schedule to this certificate and the documents therein referred to.
- 8 CSA Group Netherlands B.V., Notified Body No. 2813 in accordance with Article 17 of the Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres, given in Annex II to the Directive.
- The examination and test results are recorded in the confidential reports listed in item 16.2.
- 9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:  
EN IEC 60079-0:2018 IEC 60079-11:2023 (Ed. 7)
- Where additional criteria beyond those given here have been used, they are listed in item 18 in the Schedule.
- 10 If the sign "X" is placed after the certificate number, it indicates that the product is subject to the "Specific Conditions of Use" listed in item 17 of this certificate.
- 11 This EU-Type Examination Certificate relates only to the technical design of the specified product in accordance with the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this product, these are not covered by this certificate.
- 12 The marking of the product shall include the following (additional marking is provided in the Schedule as a part of item 15, if applicable):



II (1) G  
[Ex ia Ga] IIC  
-40 °C ≤ Ta ≤ +70 °C

Signed: M Halliwell  
Title: Senior Director of Operations  
Date: 27 August 2025



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## SCHEDULE

13

14 EU-Type Examination Certificate Number: CSANe 24ATEX1171X Issue: 0

15 Description:

The CDUSB100 is a connection device for commissioning and service purposes, which provides a physical USB-C interface on one side, and on the other side an RxD/TxD data interface via an M12 connection is provided. The intended use is to provide a bridge for communication between a host device such as a flowmeter and a service device such as a notebook. By using this connection, the host device can be parameterized, and status and service data can be read from the flowmeter.

The CDUSB100 is classified as an associated apparatus and is designed for installation and use in non-hazardous areas. The host device (e.g., a flowmeter) typically provides an Ex i interface for data transfer. To maintain the explosion protection properties of the host device, the CDUSB100 must feature an intrinsically safe interface on the flowmeter side. The CDUSB100 is also usable with host devices that do not provide an intrinsically safe interface.

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

Entity Parameters:

M12 Plug, when connected with intrinsically safe host device, entity parameters, in type of protection Ex ia IIC:

U<sub>i</sub> = 12 V

I<sub>i</sub> = 3.33 A

P<sub>i</sub> = 1.1 W

C<sub>i</sub> = 1.41 µF

L<sub>i</sub> = 0 µH

M12 Plug, when connected to a non-intrinsically safe host device: U<sub>m</sub> = 60 V

Maximum voltage across galvanic isolation between USB-C connector and M12 connector: U<sub>m</sub> = 60 V

Maximum voltage allowed to be applied to USB-C connector: 5.5 V

16 Drawings and documents:

16.1 Technical documents:

Refer to Certificate Annex.

16.2 Associated reports and certificate history:

Issue	Date	Report number	Comment
0	27 August 2025	R80212934A	The release of the prime certificate.

17 Specific conditions of use (denoted by "X" after the certificate number):

17.1 The CDUSB100 is designated for use in ambient temperature range from -40 °C to +70 °C.

17.2 Nominal supply voltage on USB side is U<sub>nom</sub> = 5 VDC ±10 %.

17.3 The personal computing device, which is connected via USB, must be supplied by SELV/PELV/ES1 equipment with U<sub>m</sub> = 60 V (USB interface side).

17.4 The temperature at the connection point of the M12 plug shall not exceed the allowed ambient temperature range.



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**18 Essential health and safety requirements of Annex II (EHSRs):**

The relevant EHSRs that are not addressed by the standards listed in item 9 of this certificate have been identified and conformity of the product demonstrated in the reports listed in item 16.2.

**19 Remarks and additional information:**

The use of this certificate is subject to the regulations applicable to holders of CSA Group Netherlands B.V. certificates.

Compliance of the product with the applicable safety requirements of the relevant industrial standards has not been verified and is not covered by this certificate.

**19.1 Conditions of manufacture:**

None.



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## Certificate Annexe

### Document History

Issue – 0

#### Documents Introduced or Revised

Drawing	Sheets	Rev.	Date (Stamp)	Title
E393613	1 to 31	03	08 Aug 25	Technical Description CDUSB100
9403013	1 of 1	00	06 Aug 25	Overall Drawing
9400788	1 to 3	02	06 Aug 25	Type Label CDUSB100
8029508_AE00_KA_CDUSB100_en_V1-2_2025.08_EHS.indd	1 to 3	--	08 Aug 25	User Instruction – Ex Relevant with Control drawing number 9400696
E403119	1 to 3	01	06 Aug 25	BoM
E386093	1 of 1	00	06 Aug 25	Placement Drawing (R101 – For Manufacturer Use Only)
E386079	1 of 1	00	06 Aug 25	Schematic Drawing (R101 – For Manufacturer Use Only)
E386080	1 of 1	00	06 Aug 25	Layout Drawing (R101 – For Manufacturer Use Only)
E422482	1 of 1	00	06 Aug 25	Placement Drawing (R102 – Final Version for End User)
E422483	1 of 1	00	06 Aug 25	Schematic Drawing (R102 – Final Version for End User)
E422487	1 of 1	00	06 Aug 25	Layout Drawing (R102 – Final Version for End User)

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