

EU-Type Examination Certificate

Equipment intended for use in potentially explosive atmospheres
Directive 2014/34/EU

EU-Type Examination Certificate Number: **BVS 18 ATEX E 059 X**

Product: **Encoder type EXME-****

Manufacturer: **Scancon Encoders A/S**

Address: **Huginsvej 8, 3400 Hilleroed, Denmark**

This product and any acceptable variations thereto are specified in the appendix to this certificate and the documents referred to therein.

DEKRA EXAM GmbH, Notified Body number 0158, in accordance with Article 17 of 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 Report No. BVS PP 18.1003 EU.

The Essential Health and Safety Requirements are assured in consideration of:

EN 60079-0:2012 + A11:2013 General requirements
EN 60079-1:2014 Flameproof enclosure "d"

If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Special Conditions for Use specified in the appendix to this certificate.

This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

The marking of the product shall include the following:

 **IM2 Ex db IMb**

DEKRA EXAM GmbH
Bochum, 2018-07-24



Certifier



Approver

13 **Appendix**

14 **EU-Type Examination Certificate
BVS 18 ATEX E 059 X**

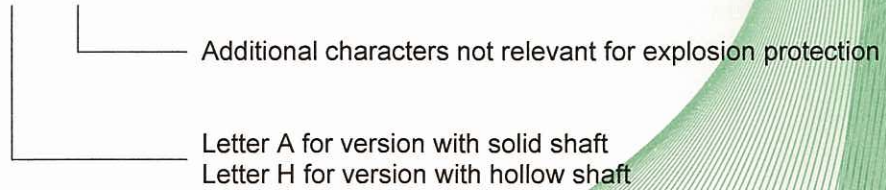
15 **Product description**

15.1 **Subject and type**

Encoder Type EXME-**

Type code

EXME - * *



15.2 **Description**

The encoder type EXME consists of an enclosure in type of protection Flameproof enclosure.
The enclosure contains the encoder electronics and features a drive shaft at one front end.

15.3 **Parameters**

| | | | |
|--|---|----|------------------------|
| Voltage | ≤ | DC | 30 V |
| Current | ≤ | | 300 mA |
| Permissible rotational speed for encoders with shaft seal | ≤ | | 3000 min ⁻¹ |
| for encoders without shaft seal | ≤ | | 6000 min ⁻¹ |
| Ambient temperature range | | | -40 °C up to 70 °C |

16 **Report Number**

BVS PP 18.1003 EU, as of 2018-07-24

17 **Special Conditions for Use**

- 17.1 The flameproof joints are not intended to be repaired.
- 17.2 The nominal yield stress of the fasteners of the flameproof enclosure has to be at least 450 MPa.
- 17.3 For the connection of the encoder cables and cable glands with a permissible operating temperature of at least 85 °C have to be used.

18 **Essential Health and Safety Requirements**

The Essential Health and Safety Requirements are covered by the standards listed under item 9.

19 **Drawings and Documents**

Drawings and documents are listed in the confidential report.