





## SCHEDULE

EU TYPE EXAMINATION CERTIFICATE NUMBER: ITS09ATEX16847X R.1

### 13. DESCRIPTION OF THE EQUIPMENT OR PROTECTIVE SYSTEM

The Encoder Type 2REX is a small cylindrical unit (68mm in diameter with length dependent on model) containing low voltage electronic components. The enclosure is manufactured from either aluminium, stainless steel or acid-proof stainless steel. The enclosure comprises of cylindrical flamepaths between the End Cap & Cover Tube and Cover Tube & Housing. The rotating shaft forms a cylindrical flamepath through the housing controlled by k & m factors and is held in place with 2 precision roller element bearings. The enclosure has one threaded cable entry fitted with either a certified M20x1.5, M25x1.5, 1/2" NPT or 3/4" NPT cable gland or an M15 integral cable gland. Both internal and external earthing is provided.

Additionally, the encoders meet IP64/65/66/67/68 (1hour/1 meter) in accordance with IEC 60529.

Electrical Specification:

4.5 to 30Vdc or 5 to 30Vdc

100mA max

CE Marking shall be accompanied by the identification number of the Notified Body responsible for surveillance of production.

### 14. DRAWINGS AND DOCUMENTS

TITLE	DOCUMENT Nr	LEVEL	DATE
Certification drawing – H.Shaft/shaft for 2REX/REXM Ex dwg	00131738C	3	29-11-2017
*Certification drawing – Housing for 2REXI-2REX-REXM Ex dwg	00132210C	9	14-06-2021
*Certification drawing – End Cap for 2REX/REXM Ex-dwg	00132416C	4	14-06-2021
Certification drawing – Cover Tube 2REX/REXM Ex-dwg	00132417C	2	29-11-2017
*Certification drawing – Cap 2REX/REXM Ex dwg	00132573C	3	14-06-2021
*Certification drawing – Cap 2REX/REXM Ex dwg	00132616C	3	14-06-2021
Seal Ø4,5 ZruElast 70189 Ex dwg	00141224	4	29-11-2017
Certification drawing – Cable Gland M15x1	00142425C	2	29-11-2017
*Warning Label for mining and surface Ex-dwg.	00241009	1	11.12.2018
Seal Ø7 ZruElast 70189 Ex dwg	00143108	7	29-11-2017
Internal / external earthing 2REX-REXM	00230838C	1	29-11-2017
Allen screw M4x16 ISO4762 A4-80	07130086	5	06-07-2017
Allen screw M4x10 ISO4762 A4-80	07130091	4	29-11-2017



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TITLE	DOCUMENT Nr	LEVEL	DATE
Allen screw M4x12 ISO4762 A4-80	07130094	3	17-05-2017
Allen screw M4x35 ISO4762 A4-80	07130097	4	17-05-2017
Ring Cable Shoe Yellow – M4	06300054	1	09-07-2013
Allen screw M4x10 ISO4762 A2-70	07130056	3	18-10-2012
Allen screw M4x12 ISO4762 A2-70	07130059	3	18-10-2012
Allen Screw M4x35 ISO4762 A2-70	07130063	3	18-10-2012
*Encoder type 2REXI, 2REX, REXM. M&k calculation Ex-dwg	00132087	3	14.06.2021
Washer $\varnothing 7/\varnothing 13/x1$	07150039	1	29-09-2009
Certification drawing – Rotary-Shaft Seal	00230847C	1	18-01-2018
Certification drawing – O-ring Ex dwg	00230849C	1	16-01-2018
*PCB SSI	00241789	1	14-06-2021
*SC0241-1 SC50NA Magnetic Multiturn	00241814	3.0	16-09-2021
*2REX ordering code Ex-dwg.	00141621	12	14.06.2021
*2REX marking label Ex-dwg.	00141622	6	14.06.2021
*Type 2REX Installation Guide	00142574	6	14 June 2021

Note: An \* is included before the title of documents that are new or revised.

Copies of the above listed documents are kept at Intertek Italia S.p.A. archive.

### 15. SPECIAL CONDITIONS FOR SAFE USE

- Minimize the risk from electrostatic discharge - clean only with a damp cloth.
- Temperature at the cable gland or branching point could exceed 70°C or 80°C respectively - suitably rated cable must be utilized.
- It is a condition of certification that the flamepaths have to comply with the manufacturers drawings and can only be repaired by the manufacturer.
- The fasteners used to secure enclosure body to end shields shall have a minimum yield stress of 450 MPa.
- For models without integral cable gland use only suitably certified Ex db IIC Gb and Ex tb IIIC Db cable glands, thread adaptors and blanking elements.
- It is a condition of certification that precautions must be taken to avoid dust from forming layers on the encoder.



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### 16. ESSENTIAL HEALTH AND SAFETY REQUIREMENTS

The relevant essential Health and Safety Requirements have been identified and assessed in Intertek 104705584CHE-001 dated 09 December 2021.

### 17. ROUTINE (FACTORY) TESTS

None.

### 18. DETAIL OF CERTIFICATE CHANGES

#### **12 December 2019 (R.0):**

- Original issue by Intertek Italia S.p.A. NB 2575 on transfer from Intertek Testing & Certification Ltd. (NB 0359) using the same issued original certificate number.

#### **?? December 2021 (R.1):**

- Update from EN 60079-0:2012+A11:2013 to EN IEC 60079-0:2018.
- Inclusion of battery on Absolute Encoder PCB.
- Minor drawing changes not compromising the ATEX certification.
- Addition of IP rating to product description.