

**1 EU - Type Examination Certificate**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: ExVeritas 15 ATEX 0080X Issue: 2

4 Equipment: Optical Shaft Encoder

5 Manufacturer: Hohner Automation Ltd

6 Address: Units 14-16,  
Whitegate Industrial Estate,  
Wrexham,  
LL13 8UG, UK

7 This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

8 ExVeritas, Notified Body number 2585 in accordance with Article 9 of the Council Directive 2014/34/EU of 26 February 2014, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to design and construction of equipment and protective systems for use in potentially explosive atmospheres given in Annex II to the Directive

9 Compliance with the applicable Essential Health and Safety Requirements has been assured by compliance with the following Standards and section 16 of this certificate:

EN 60079-0:2013  
EN 60079-1:2014

EN 60079-31:2014

EN 13463-1:2009  
EN 13463-5:2011

10 If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EU-Type Examination Certificate relates only to the design, construction, examination and tests of the specified equipment or protective system in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12 The marking of the equipment shall include the following:



Ex db IIC T5 Gb  
Ex db I Mb  
Ex tb IIIC T92°C Db  
II 2 G D c / I M2 c  
Ta -40°C or -20°C to + 60 °C

On behalf of ExVeritas



S.L. Clarke CEng MSc  
Certification Manager



**No. 8613**

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The certificate is only valid when it carries an original signature.

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ExVeritas, Units 16-18, Abenbury Way, Wrexham Industrial Estate, Wrexham, United Kingdom LL13 9UZ.

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## Schedule

### 13 Description of Equipment or Protective System

The R and M Series Optical Shaft Encoders are manufactured from stainless steel; they are cylindrical in shape and comprise a main body and a cover. The cover is secured to the main body by five, M3, socket head cap screws. The main body contains a PCB assembly and has options for up to three M16, M20 or M25 threaded entries either in its sidewall (radial) and/or three towards the base (axial). The cover contains a shaft and bearing assembly to facilitate the equipment's measuring function. There is an optional dual compartment version, which contains a PCB/connector assembly to allow the user access via a top cover. The top cover has options for up to three M16 threaded entries. Fasteners used to secure the end caps which form spigot joints on the enclosures are of the hexagon socket head type and are made of 316 stainless steel (A4-70) with a minimum yield stress of 450 N/mm<sup>2</sup>.

R series are typically 72mm in diameter  
M series are typically 82mm in diameter

### 14 Descriptive Documents

#### 14.1 Associated Report and Certificate History:

| Report Number | Cert Issue Date | Issue | Comment                                |
|---------------|-----------------|-------|--|
| R0725/A/1     | 20 Nov 2015     | 1     | Initial issue of the Prime Certificate |
| N/A           | 14 Jul 2016     | 2     | Re-issue against Directive 2014/34/EU  |

#### 14.2 Compliance Drawings:

##### issue 1

| Title                                  | Drawing No   | Rev | Sheets | Date       |
|--|--------------|-----|--------|------------|
| R/M Series Assembly                    | RR-AS-001-03 | 3   | 1 of 5 | 2015/11/06 |
| R/M Series Body                        | RR-BD-001-03 | 3   | 2 of 5 | 2015/11/06 |
| R/M Series Lid                         | RR-LD-001-03 | 3   | 3 of 5 | 2015/11/06 |
| R/M Series Shaft                       | RR-SS-001-03 | 3   | 4 of 5 | 2015/11/06 |
| R/M Series Label                       | RR-LB-001-03 | 3   | 5 of 5 | 2015/11/06 |
| M Series Lid for Profibus Openable     | ME-LD-PBS-02 | 2   | 1 of 1 | 2015/11/06 |
| M Series Top Lid for Profibus Openable | ME-TL-PBS-02 | 2   | 1 of 1 | 2015/11/06 |

### 15 Conditions of Certification

#### 15.1 Special Conditions for Safe Use

- Fasteners shall be hexagon socket head type, 316 stainless steel (A4-70) and with a minimum yield stress of 450 N/mm<sup>2</sup>
- Flameproof joints are not intended to be repaired

#### 15.2 Conditions for Manufacture None

### 16 Essential Health and Safety Requirements

Essential Health and Safety Requirements are addressed by the standards listed in section 9 and where required the report listed in section 14.1

The manufacturer shall inform the Notified Body of any modifications to the design of the product described by this schedule.

Certificate 15 ATEX 0080X Issue 2

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