



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx EUT 17.0023X

Issue No: 0

Certificate history:

Issue No. 0 (2017-08-24)

Status: **Current**

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Date of Issue: **2017-08-24**

Applicant: **Rotork Instruments Italy s.r.l.**
Via Portico 17 - 24050 Orio al Serio (BG) - Italy
Italy

Equipment: **SOLDO™ Proximity switch BM**
Optional accessory:

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

Marking:
Ex ia IIC T4 Ga
Ex ia IIIC T135°C Da

*Approved for issue on behalf of the IECEx
Certification Body:*

Dionisio Bucchieri

Position:

Head of IECEx CB

*Signature:
(for printed version)*

Date:

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 the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

Eurofins Product Testing Italy S.r.l.
Via Cuornè,
n.21 - 10156 Torino
Italy



Product Testing



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Manufacturer: **Rotork Instruments Italy s.r.l.**
Via Portico 17 - 24050 Orio al Serio (BG) - Italy
Italy

Additional Manufacturing location(s):

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 electrical apparatus 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 : 2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0
IEC 60079-11 : 2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

*This Certificate **does not** indicate compliance with electrical 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 Report:

[IT/EUT/ExTR17.0028/00](#)

Quality Assessment Report:

[GB/ITS/QAR09.0004/05](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The proximity switches BM series are sensors suitable for any industrial field where is necessary to take over the position of a magnetic or ferrous target.

BM proximity switches can include a reed detector for magnetic target or electromechanical switch used to detect ferrous target.

Both types have a body made of stainless steel material and are provided pre-wired.

The internal earth connection is given by one Y/G cable and the external one is guaranteed by mounting the equipment on metallic structure. The equipment can be connected to other devices through the cable entry complying with M20x1.5 or NPT thread.

The equipment can be used in presence of potential explosive atmosphere belonging to gas group IIC in zone 0 or dust group IIIC in zone 20 and have to be powered up by an intrinsic safety barrier.

The equipment is designed for an operating temperature range of: $-40^{\circ}\text{C} \div +105^{\circ}\text{C}$.

Safety relevant electrical parameters:

$U_i = 30 \text{ V}$, $I_i = 100 \text{ mA}$, $P_i = 530 \text{ mW}$, $C_i \approx 0 \text{ uF}$, $L_i \approx 0 \text{ uH}$

Warning label:

None

Routine test:

None

SPECIFIC CONDITIONS OF USE: YES as shown below:

The proximity switch have to be powered up only by a single channel certified intrinsic safety barrier