



# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: **IECEx EPS 15.0070** Page 1 of 4 [Certificate history:](#)  
Status: **Current** Issue No: 1 [Issue 0 \(2015-11-02\)](#)  
Date of Issue: 2020-11-13  
Applicant: **RIBCO S.r.l.**  
Via dei Mille, 12  
20061 Carugate (MI)  
**Italy**  
Equipment: **Pushbuttons and signaling units Series PB...**  
Optional accessory:  
Type of Protection: **"db", "tb"**  
Marking: Ex db IIC (or IIB or IIB+H2) T6...T4 Gb  
Ex db I Mb (stainless steel, brass or cast iron versions only)  
Ex tb IIIC T85°C...T135°C Db IP66

Approved for issue on behalf of the IECEx  
Certification Body:

**Holger Schaffer**

Position:

**Certification Manager**

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 [www.iecex.com](http://www.iecex.com) or use of this QR Code.



Certificate issued by:

**Bureau Veritas Consumer Products Services Germany GmbH**  
**Businesspark A96**  
**86842 Türkheim**  
**Germany**





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Manufacturer: **RIBCO S.r.l.**  
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20061 Carugate (MI)  
**Italy**

Additional  
manufacturing  
locations:

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 equipment 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 60079-0:2017** Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

**IEC 60079-1:2014-06** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

**IEC 60079-31:2013** Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:2

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

[DE/EPS/ExTR15.0068/01](#)

Quality Assessment Report:

[IT/CES/QAR11.0001/09](#)



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**EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

Pushbuttons and signaling units Series PB... enclosures can be used in combination with certified command and signaling units IECEx INE 14.0055U (or of other control and signaling units with equivalent certification).  
For details see Annex to this certificate.

**SPECIFIC CONDITIONS OF USE: NO**



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**DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**

Standards updated. Brass version is added.

**Annex:**

[IECEx EPS 15.0070\\_001 - Annex.pdf](#)



**Description:**

Pushbuttons and signaling units Series PBA, made in Aluminum light alloy (Mg+Ti+Zirconium < 6%) with stainless steel external bolts, are available according to all different requirements because of their big choice of control and signaling units covered by component certificate IECEx INE 14.0055U (or of other control and signaling units with equivalent certification). Local control stations are available in four different sizes: pushbuttons equipped with one ("PB 1"), two ("PB 2"), three ("PB 3") and four ("PB 4") units. In addition, versions of pushbutton series PB in Stainless Steel AISI 316L (letter "S" is added to code - "PBS") or Cast Iron (letter "C" is added to code - "PBC") or Brass (letter "B" is added to code - "PBB") are available. It is also available a special model of PB 1 (for every materials) with an emergency button and break glass, complete of external accessories (chain, hammer, glass stop ring, etc.) in stainless steel and RAL 3000 external coating. Standard external coating is grey color RAL 7000. Other colors are available upon request by customer. The thickness of the external paint must be < 0.2 mm for gas groups IIC-IIB+H2 and < 2 mm for gas group IIB.

**Electrical characteristics:**

	Tensione Massima		Corrente Nominale	Potenza Massima	Frequenza Nominale	
	V c.a.	V c.c.	A	W	Hz	
Segnalatori con attacco E10, E14, BA9s, BA15s, BA15d	380	380	10	5	50/60	<i>Signaling with socket E10, E14, BA9s, BA15s, BA15d Manipulators</i>
Manipolatori	690	440	10	0.5	50/60	
	V ac	V dc	A	W	Hz	
	Maximum Voltage		Standard Current	Maximum Power	Standard Frequency	

**Gas groups and temperature classification:**

Modello	PB 1	PB 2	PB 3	PB 4	Model
Gruppo Gas	IIC	IIC	IIB or IIB+H2	IIB or IIB+H2	Gas Group



Annex to Certificate  
IECEx EPS 15.0070 Issue No.: 1



Tipologia lampada installata/ Max Potenza <i>Installed bulb type/ Max power</i>	Classe di temperatura <i>Temperature class</i>		Max temp. ambiente <i>Max ambient temp.</i> (A.T.max)
	GAS	DUST	
CON LAMPADE AD INCANDESCENZA / ALOGENE <i>WITH INCANDESCENT / HALOGEN LAMPS</i>	T6	T85°C	Fino a / Up to +50°C
	T5	T100°C	+50°C < A.T.max ≤ +65°C
	T4	T135°C	+65°C < A.T.max ≤ +80°C
CON LAMPADE LED <i>WITH LED LAMPS</i>	T6	T85°C	Fino a / Up to +60°C
	T5	T100°C	+60°C < A.T.max ≤ +80°C
CON SOLO UNITÀ DI COMANDO <i>COMMAND UNITS ONLY</i>	T6	T85°C	Fino a / Up to +80°C

Minimum ambient temperature : -50 °C  
Maximum ambient temperature : up to +80°C

**Special conditions for manufacturing and installation :**

All IECEx certified and tested components that are built into the enclosure's walls need to fulfill the requirements of types of explosion protection used as well as the IP level and operation range shown on the type label.

Any openings that are not used shall be closed as specified in IEC 60079-1, section 11.

Manufacturer must assure that the various of internal and external components do not exceed the maximum power dissipation and temperature class limit of the enclosure.

For use in presence of combustible dusts user must regularly clean external surface of enclosure to avoid any accumulation of dust on the surface (the maximum allowed thickness of dust is equal to 5 mm).

All damaged parts must be changed or repaired exclusively by manufacturer (where not differently specified).