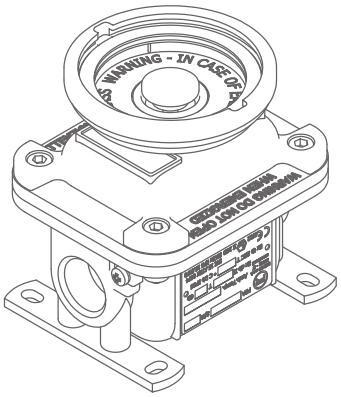
Emergency pushbuttons with break glass series PB are designed and manufactured according the following European and International Standards for electrical apparatus:

IEC 60079-0	: 2017	EN IEC 60079-0	: 2018
IEC 60079-1	: 2014-06	EN 60079-1	: 2014
IEC 60079-31	: 2013	EN 60079-31	: 2014

The respect of the Essential Health and Safety Requirements of 2014/34/EU Directive, of IECEx Scheme Rules, of IECEx 02 and Operational Documents as amended has been assured by compliance to previous Standards.



MARKING FOR SERIES PBA

RIBCO
I-20061-CARUGATE (MI)
Code Article
IECEx EPS 15.0070
BVI ATEX 0074
Serial number
CE 0722 Ex II 2GD
Ex db IIC (or IIB or IIB+H2) (*) T6 ÷ T4 (**) Gb
Ex tb IIIC T85°C ÷ T135°C (**) Db IP65/66
A.T. -20°C ÷ +40°C
(Max. -50°C ÷ +80°C)

MARKING FOR SERIES PBS/PBB/PBC

RIBCO
I-20061-CARUGATE (MI)
Code Article
IECEx EPS 15.0070
BVI ATEX 0074
Serial number
CE 0722 Ex I M2 Ex II 2GD
Ex db I Mb
Ex db IIC (or IIB or IIB+H2) (*) T6 ÷ T4 (**) Gb
Ex tb IIIC T85°C ÷ T135°C (**) Db IP65/66
A.T. -20°C ÷ +40°C
(Max. -50°C ÷ +80°C)

(*) See Tab 4 / (**) See Tab 5

WARNING - DO NOT OPEN WHEN ENERGIZED.
WARNING - GREASE COATING ON PLAIN JOINT MUST BE RESTORED BEFORE CLOSURE AND ONLY STAINLESS STEEL SCREWS QUALITY A2-70 or A4-70 AND CABLES SUITABLE WITH INDICATED TEMPERATURE CLASS MUST BE USED.

ELECTRICAL DATA

Utilization category AC15
- Voltage (V): 24 - 110 - 230
- Current (A): 10 - 6,5 - 4

Ui = 300V
Uimp = 2,5Kv

EQUIPMENT IDENTIFICATION Example PBA21-E1LRD113

(a) MODEL
PBA = Pushbutton made in Aluminium light alloy
PBS = Pushbutton made in Stainless steel
PBB = Pushbutton made in Nickel plated brass
PBC = Pushbutton made in Cast Iron

(b) CABLE ENTRY
2 = n° cable entry 3/4" NPT ANSI/ASME B1.20.1
25 = n° cable entry M25x1.5 ISO 965 - 1,2,3

(c) DIMENSION
1 = Pushbutton with 1 unit - gas group IIC

(d) FUNCTION
E1= breaking glass and manual release of the bushbutton
E0 = breaking glass and automatic release of the pushbutton

(e) VERSION WITH LIGHTING PUSHBUTTON
L = presence of lighting pushbutton

(f) NUMBER OF CONTACT
11 = 1 NO + 1 NC
02 = 2 NO
20 = 2 NC

(g) LED VOLTAGE
3 = 24 Vac/dc
5 = 110 Vac
7 = 230 Vac

INSTALLATION

Before installation read carefully all available techical specifications.

- All pushbuttons and signaling units Series PB are electrical equipment for Group II, intended for use on surface plants. Pushbuttons and signaling units Series PBS, PBB and PBC, indeed, are electrical equipment for Group I and II, intended for use on mines susceptible to firedamp and/or on surface plants. Are also intended for use in classified areas called Zone 1 and/or zone 2 (according to EN 60079-10-1 Standard) and in classified areas called Zone 21 and/or zone 22 with presence of combustible dust (according to EN 60079-10-2 Standard).
- Pushbuttons and signaling units Series PB must be installed and maintained according to relevant Standards for electrical installations in hazardous areas classified for explosive gas and/or combustible dust atmospheres EN 60079-14 and EN 60079-17 (in their latest editions), or equivalent local National Standards.
- All apparatuses must be ground connected; devices have an appropriate external and internal screw and bracket indicating the right location for ground connection Use terminals and devices suitable, on each cast, against release and rotation.
- Supply pushbuttons with cable suitable for the relevant temperature class.
- Joint surfaces must not have been further on worked and/or covered by paint or dust.
- Degree of protection IP65/66 and protection against dust is guaranteed only if plain joint is treated with grease and if the units' threading installed on the cover is blocked with a suitable thread locking product along the entire circumference and at least for one thread. The grease applied shall be of a type that does not harden because of ageing and does not contain an evaporating solvent. After each enclosure opening, the grease layer must be restored according to manufacturer's recommendations.

The installer and the user are always responsible of correspondence of plant location features with limits and general characteristics as above.

Accessories used for cable entries must be certified according to ATEX or IECEx relevant standards and must be suitable with foreseen ambient temperature range and relevant degree of protection must be IP66.
In order to guarantee the IP66 protection a threadlocker must be used along the entire circumference and for at leat one thread.

MAINTENANCE AND REPAIR

- After each opening operation, grease must be restored on plan joint.
- User must regularly clean external surface of enclosure due to avoid any accumulation of dust on the surface (the maximum allowed thickness of dust is equal to 5 mm).
- All damaged parts for impact, accidental falls or simple wear, can be changed or repaired exclusively by manufacturer, expecting all particular authorizations of the same manufacturer as to guarantee protection mode and safety.
- Cable entries must have at least degree of protection IP65/66 and number of engaged threads must be greater than 5, with a minimum length of 8 mm.
- Grease coating on plane joint must be restored before closure. The grease applied shall be of a type that does not harden because of ageing and does not contain an evaporating solvent.
- Use only screws quality A2-70 or A4-70.
- We suggest to do a yearly check of the pushbutton.