

Command and signaling units series Rev. 1 - 30/03/2020 RX & RS

IS-CSU-EN

Pag. 1/4

DESCRIPTION

Comand and signalling units series RX-RS are certified as Ex Component according to following International and European standards:

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

The units are also certify both for Group I & Group II. They are suitable for enclosures with internal volume up to 160,6 dm³ for gas group IIB or IIB+H2 and 62,9 dm³ for gas group IIC. If the unit has a cylindrical joint length less than 26 mm it is suitable only for enclosure with internal volume up to 2dm³ for gas group IIC or IIB+H2 or IIB.

PROTECTION DEGREE

Units have degree of protection IP66.

OPERATING TEMPERATURE

Units have the same temperature class of enclosures on wich are installed in accordance with limitations of use. (See page 4)

The max Service Temperature range is -50°C or -60°C ÷ +180°C.

The max Ambient Temperature range is -50° C or -60° C $\div +80^{\circ}$ C.

ELECRICAL VALUE RATES

The maximum supply voltage is 1000Vac or Vdc.

THREADING

Units are available with the ISO METRIC ISO 262 - ISO 965 - 1,2,3. (See page 2)

MATERIALS

Units are made in the following materials:

- nickel or chrome plated brass (CW614N)
- stainless steel AISI 304 or 316 or 316L
- polycarbonate trasparent or not in different colours
- polyammide PA6 (nylon) in different colours
- PTFE (teflon) in white color
- EPDM or silicon o-ring
- fluorosilicone membrane in different colours
- aluminium EN AW-6060

NOTE: external NOT metal particulars have a surface value less than 20 cm².



Command and signaling units series Rev. 1 - 30/03/2020 RX & RS

IS-CSU-EN

Pag. 2/4

EQUIPMENT IDENTIFICATION

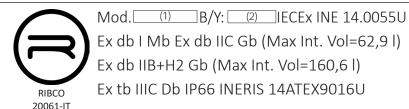
A + B + Cexample RX 20 P

- A Series RX or RS (RXK or RSK for nickel plated brass; RXI or RSI for stainless steel AISI 316L)
- B Dimension of the unit (see table)
- C Identification of main function: P=push button, L=lighting, ecc.

The units are available with the following threading ISO METRIC ISO 262 - ISO 965 - 1,2,3

CODE	THREADING
10	M10x1.5 ISO 262 6H 6g
12	M12x1.5 ISO 262 6H 6g
14	M14x1.5 ISO 262 6H 6g
16	M16x1.5 ISO 262 6H 6g
20	M20x1.5 ISO 262 6H 6g
25	M25x1.5 ISO 262 6H 6g
32	M32x1.5 ISO 262 6H 6g

MARKING FOR SERIES RX / RS / RXI / RSI / RXK / RSK

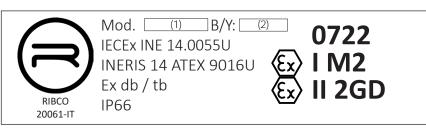




MARKING FOR SERIES RX / RS / RXI / RSI / RXK / RSK WITH CYLINDRICAL JOINT LESS THAN 26mm



REDUCED MARKING FOR SERIES RX / RS / RXI / RSI / RXK / RSK



Notes for rating of plate: (1) Code Article (2) Batch number / Year of construction



Command and signaling units series Rev. 1 - 30/03/2020 RX & RS

IS-CSU-EN

Pag. 3/4

INSTALLATION AND USE

The units series RX & RS must be installed, in conformity of the International and European standards IEC 60079-14 & EN60079-14, by qualified and authorized personal.

Changes of the design and modifications to the units are not permitted and must be used only if in perfect conditions.

Check, before tightening, absence of foreign body (e.g. burrs, shavings, etc.) on the threaded part of the component.

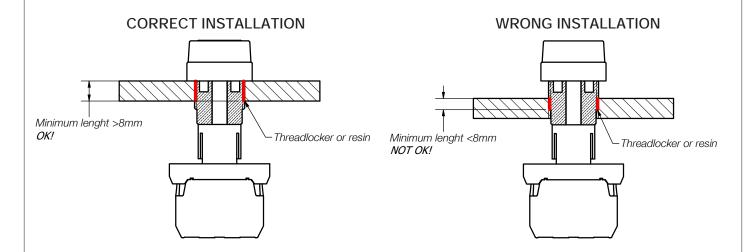
Threading length always guarantees 5 engaged threads at least with a minimum length of 8 mm.

The user must respect the minimum number of engaged threads.

least with a minimum length of 8 mm

To guarantee the explosion proof and the IP protection of the enclosure on wich the unit is installed, the units can be installed in two different ways:

1 - Apply all over the circumference and for at least two thread an epoxide resin type **Huntsman** Araldite AW106 / HV 953U or a threadlocker type Arexons System 52A72. WARNING: this type of installation does NOT ALLOW removal after assembly, this could damage the thread of the unit.



2. Use a gasket outside the enlcosure, and a locknut inside the enclosure. Use grease type Arexons System GC300 all over the thread and guarantees 5 engaged threads at

CORRECT INSTALLATION WRONG INSTALLATION OK! Grease OK! Grease Gasket OK! Gasket OK! Minimum lenght >8mm Minimum lenght >8mm No locknut NOT OK! Locknut OK!



Command and signaling units series Rev. 1 - 30/03/2020 RX & RS

IS-CSU-EN

Pag. 4/4

SPECIAL CONDITION FOR SAFE USE

- The Ex component is intended to be used in an ambient temperatures range from -60°C or -50°C to +80°C.
- The Ex component is intended to be used in an service temperatures range from:
 - -60°C to +180°C for component without cemented joint,
 - -60°C to +180°C for component with SARATOGA resin,
 - -50°C to +180°C for component with SYSTEM SIL 400 resin
- The non-transmission tests have been performed for a maximum ambient temperature of +80°C.
- The widths of the flameproof joints are greater than those specified in tables of EN 60079-1 standard.
- These components shall be fitted on enclosures in accordance the following maximum volumes:
 - Maximum volume for Group IIB+H2: 160.6 dm3
 - Maximum volume for Group IIC: 62.9 dm3
- The components with width of cylindrical joints of 19 mm shall be fitted on enclosures with a maximum volume of 2 dm3.
- The overpressure type tests have been performed at 20 bar.
- Impact test performed at 7 J.
- For group I, the user will take into consideration that the Ex component underwent only a shock corresponding to an energy of a low risk, and the non-metallic parts haven't been submitted to resistance to chemical agents tests.