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I.S. FIELD POWERED RECEIVER

P/N – RLRX2PI_xx

Ex ia I – IECEx TSA 08.0031X (RLTX6P platform)

RINGLINE DUAL-CHANNEL PROGRAMMABLE RECEIVER WITH INDICATION

DESCRIPTION:

The **RLRX2PI_xx** is an encapsulated two-channel field receiver module that facilitates line-powered remote indication anywhere on a Ringline field bus. The receiver decodes the two discrete channels (A and B) of its programmed Ringline address and displays their status via LED's mounted on a stainless steel faceplate module. LED required colours are nominated by the 'xx' suffix (see ordering detail next page).

FEATURES:

- **Simple, robust and functional.**
- **Line powered at up to 12km.**
- **Suitable for Group I hazardous areas**
- **Robust stainless steel IP55 faceplate**
- **Range of LED colours available**
- **Low current draw so many units can be used on one system**
- **Direct connection to Intrinsically Safe Ringline without barriers.**
- **Cannot interfere with Ringline system functionality or integrity (read only).**
- **High reliability in noisy environments.**

APPLICATIONS:

The **RLRX2PI_xx** is suitable for any application where visual indication of Ringline channel status is required, including hazardous area indication. The module is ideal for leveraging Ringline's reliability and long distance (up to 12km) capability to provide remote visual indication of digital process variables without need of a local power supply. Examples include pump monitoring, level indicators, flow sensors etc.

E.g. failsafe (single-fault tolerant) monitoring may be implemented by dual-channel process feedback and standard Ringline complimentary logic transmission, where 1:0 = healthy and 0:1 = tripped. The LED display might typically be configured with green for the A-channel and a red for the B-channel, so the healthy [1:0]

state registers 'green LED on' and the tripped state [0:1] registers as 'red LED on'. Illegal states [0:0] and [1:1] would result in both LEDs off, or both on respectively. See following for LED colours and combinations.

PART NUMBERS:

The range of Receiver LED options are indicated in the part number builder below.

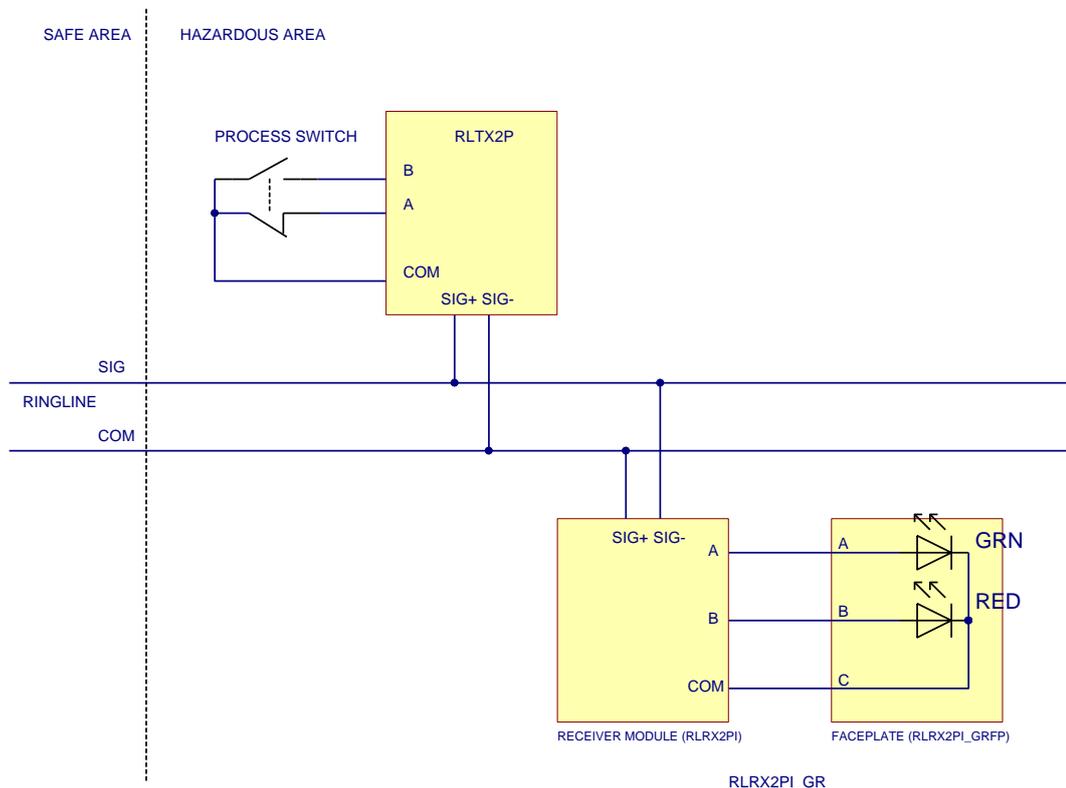
RLRX2PI

- B – channel LED colour:
R=Red
G=Green
Y=Yellow
B=Blue
W=White
- A – channel LED colour:
R=Red
G=Green
Y=Yellow
B=Blue
W=White

NOTE: Sold separately the receiver module has part no (RLRX2PI) and the faceplate has part no (RLRX2PI_xxFP).

BRIEF TECHNICAL SPECIFICATIONS:

Power Supply:	7.4V RMS from the Ringline field bus
Output:	2 x LED (colour nominated at time of order)
Isolation from Earth:	500V min.
Addressing:	User programmable (via Ringline Programmer)
Dimensions:	70 (w tabs) / 50 (w body) x 30(h) x 25(d) mm Ø3mm mounting holes - 60mm apart
Certification:	IECEX TSA 08.0031X (RLTX6P platform)



Typical Terminations