

RINGLINE 2 CH TRANSMITTER RLTX2P



Features

- Intrinsically safe for hazardous applications
- Built in surge / lightning protection
- Programmable
- Easy connection

Detailed information

The Ringline dual channel digital transmitter (RLTX2P) is encapsulated in a foot mounted plastic housing with flying leads for circuit connection. It consists of a microprocessor-based control unit with electrically programmable addressing. Ringline systems have typically 64 or 96 transmitter addresses, depending on optional firmware, while each address has an 'A' and a 'B' channel. The transmitter has a pair of wires (blue & white) to connect it to the Ringline field bus and three wires for switch interlock monitoring (grey – channel A, brown – channel B & black - common). It has an additional wire (green) to facilitate the programming process. The transmitter receives operating power from the Ringline field bus and at the same time encodes the status of the interlocks it is monitoring back onto the bus for reception by the controller (Synchroniser). Contact interlocks being monitored should be high quality – preferably gold plated.

Intrinsically safe applications require a minimum housing protection of IP54 and at least 500V isolation from earth for monitored interlocks.

Applications

The transmitter is used in conjunction with the Ringline contact status monitoring and distributed emergency stopping system. When used as part of the emergency stop network, both channels of a transmitter are used to monitor one emergency stop switch via one normally open and one normally closed contact. In this application the inputs should be connected to two independent interlocks rather than a changeover contact for increased integrity. When monitoring non-critical functions (e.g. indication only), a single channel may be used.

Technical Specifications

Power supply	7.4V RMS from the Ringline field bus
Input	2 x voltage free contacts
Output	Encoded onto the Ringline field bus, 2 channels
Addressing	Electronic transfer via Ringline Programmer
Operating Temperature Range	-30 — +75 °C
Dimensions	70 (w tabs) / 50 (w body) x 30(h) x 25(d) mm Ø3mm mounting holes - 60mm apart
I.S. Certification	Ex ia – IECEx TSA 08.0031X

Diagram

