

ITR901-002 - KNX LINE COUPLER



Device	ITR901-002
Power Supply	EIB Power supply
Power Consumption	< 10mA
Connections	KNX TP Main line KNX TP Subline
Mode of Commissioning	S-Mode
Type of Protection	IP 20
Temperature Range	Operation (-5°C...45°C) Storage (-20°C...60°C)
Maximum Air Humidity	< 90RH
Flammability	Non-flammable product
Color	Light grey and white
Dimensions	90x36x71 mm (WxHxD)
Certification	KNX Certified
Configuration	Configuration with ETS

DESCRIPTION

Basic functionality of the TP line coupler ITR901-002 is coupling two KNX TP lines (main line and subline) providing galvanic isolation in between. Due to its flexibility ITR901-002 coupler unit can be used as KNX line coupler or KNX area coupler (to connect a TP line to a TP area or backbone) or KNX repeater (without filtering). Operational and filtering states, malfunction and faulty communication are indicated by LEDs.

ITR901-002 is able to filter the traffic according to the installation place in the bus system hierarchy and according to the built-in filter tables for group oriented communication.

ITR901-002 supports long messages (up to 240 byte APDU length) and features, for commissioning/troubleshooting, a configurable “Manual Function” with single button press activation and automatic switch-off to temporarily deactivate filtering. Available functions are:

- Suppress device configuration from the subline
- Suppress device oriented telegrams
- Trace the subline traffic
- Enable/disable filtering of Group telegrams or Physical telegrams
- Reduced number of retransmissions option available
- Diagnostic functions.

- Connect the KNX bus line as for common KNX bus connections with a KNX bus cable, to be stripped and plugged into a KNX TP connector
- Do not damage electrical insulations when connecting
- Installation only in dry locations
- Accessibility of the device for operation and visual inspection must be provided
- For commissioning use the ETS

CONNECTION DIAGRAM

1. Bus state KNX TP (Main line)

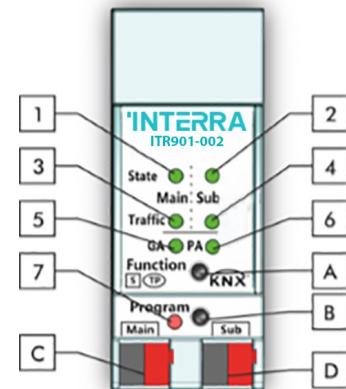
- Green: Main line OK
- Red: Manual Function active

2. Bus state KNX TP

- Green: Subline OK

3. Telegram traffic KNX TP

- Green blink: Telegram traffic extent
- Red blink: Transmission error



4. Group Address Routing

- Green: Filter active
- Orange: Route all
- Red: Block all
- Off: IP / KNX line different

5. Group Address routing

- Green: Filter active
- Orange: Route all
- Red: Block all
- Off: Main line / subline different

A. Function button

B. Program button

C. KNX TP connector Main line

D. KNX TP connector Subline

6. Physical Address routing

- Green: Filter active
- Orange: Route all
- Red: Block all
- Off: Main line / subline different

7. Programming

- Red: Program Mode