

ITR901-002 - KNX LINE COUPLER



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.

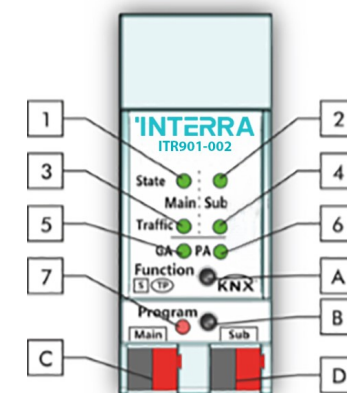
MOUNTING, COMMISSIONING AND SAFETY NOTES

- The device may only be installed and put into operation by a qualified electrician or authorized personnel
- For planning and construction of electric installations the appropriate specifications, guidelines and regulations in force of the respective country have to be complied
- For mounting only use an appropriate equipment according to IEC60715
- Installation only in distribution boards and enclosed housings
- Installation only on a 35 mm DIN rail (TH35)

- 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

- Bus state KNX TP (Main line)
 - Green: Main line OK
 - Red: Manual Function active
- Bus state KNX TP
 - Green: Subline OK
- Telegram traffic KNX TP
 - Green blink: Telegram traffic extent
 - Red blink: Transmission error
- Group Address Routing
 - Green: Filter active
 - Orange: Route all
 - Red: Block all
 - Off: IP / KNX line different
- Group Address routing
 - Green: Filter active
 - Orange: Route all
 - Red: Block all
 - Off: Main line / subline different
- Physical Address routing
 - Green: Filter active
 - Orange: Route all
 - Red: Block all
 - Off: Main line / subline different
- Programming
 - Red: Program Mode



- A. Function button
- B. Program button
- C. KNX TP connector Main line
- D. KNX TP connector Subline