

ITR901-002 - KNX LINE COUPLER



Device	ITR901-002
Power Supply	KNX TP Main Line 21...30 V DC KNX TP Sub Line 21...30 V DC
Current Consumption	< 10mA
Connections	KNX TP Main Line KNX TP Sub Line
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	94x36x71 mm (HxWxD)
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.

ETS database file is available at www.interra.com.tr

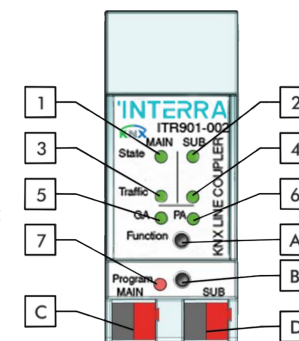
MOUNTING, COMMISSIONING AND SAFETY NOTES

- 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

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
6. Physical Address routing
 - Green: Filter active
 - Orange: Route all
 - Red: Block all
 - Off: Main line / subline different
7. Programming
 - Red: Program Mode



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