

ITR900-3000 - KNX LINE COUPLER

Device	ITR900-3000
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 ITR900-3000 is coupling two KNX TP lines (main line and subline) providing galvanic isolation in between. Due to its flexibility ITR900-3000 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.

ITR900-3000 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.

ITR900-3000 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