


Made in EU

Data secure (KSC-02L only)

TP S X

Indoor LED Network Household Building Automation

## Features

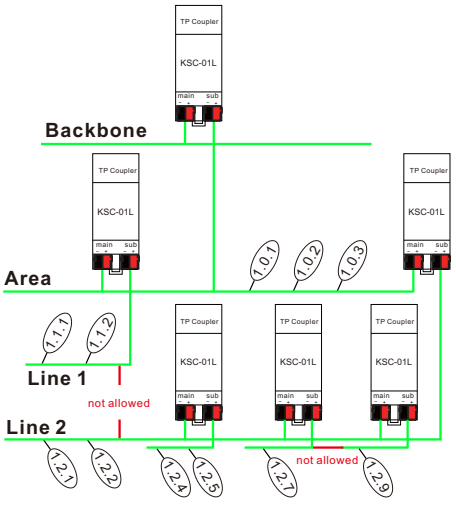
- KNX TP Line coupler/Repeater
- Telegram filtering function
- Long messages support up to 240 byte APDU
- Trace the subline traffic
- Diagnostic functions
- Manual function
- 3 years warranty

## Applications

- Office lighting
- Smart home lighting
- Luxury villas lighting
- LED indoor lighting
- Building automation

## Description

The KNX TP Media Coupler KSC works as a KNX line/area coupler to provide a bi-directional data connection between two KNX TP lines/areas. KNX TP main line and KNX TP subline are coupled having a galvanic isolation in between. Using the TP Coupler application, KSC can be used as a KNX TP line coupler to connect several KNX TP lines but also as a KNX TP area coupler to connect several TP areas or different KNX TP installation systems via a TP Backbone. Telegram filtering is accomplished according to the installation place in the hierarchy and according to the built-in filter tables for group communication. For detailed diagnosis all operational modes/states are shown by a duo-LED display. Using the TP Repeater application, KSC is able to extend a KNX TP line providing unfiltered data transfer and galvanic isolation between segments. Up to four-line segments can form a single KNX TP line by connecting three KSC line repeaters. Each line segment requires its own KNX bus power supply unit. To ease commissioning and troubleshooting the Manual Function for short-time telegram filter switch-off and special routing/repetition/confirmation settings are available.




## Order Information

| Model No. | Function | Note |
|---|---|---|
| KSC-01L | KNX classic TP Line coupler/Repeater | In Stock |
| KSC-02L | KNX Secure Line coupler/Repeater | By request |



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## SPECIFICATION

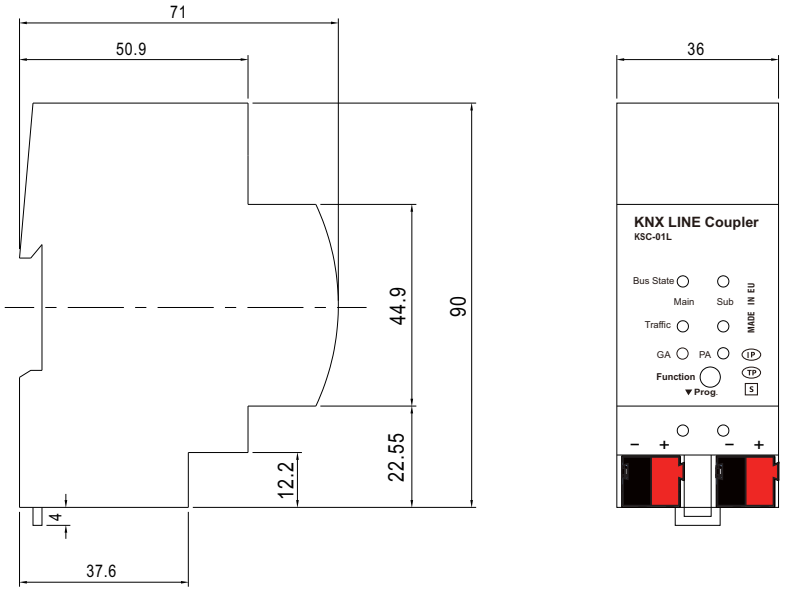
| MODEL | | KSC series |
|---|---|---|
| SUB LINE | INTERFACE | KNX Protocol |
| | INPUT VOLTAGE | 21~30VDC(KNX TP bus) |
| | LED INDICATOR | Various color see mechnical specification part |
| MAIN LINE | INTERFACE | KNX Protocol |
| | INPUT VOLTAGE | 21~30VDC(KNX TP bus) |
| | CURRENT CONSUMPTION | <10mA(KNX mainTP line) |
| ENVIRONMENT | WORKING TEMP. | -5 ~ +45℃ |
| | WORKING HUMIDITY | 20 ~ 90% RH non-condensing |
| | STORAGE TEMP., HUMIDITY | -20 ~ +60℃, 5 ~ 93% RH non-condensing |
| | POLLUTION DEGREE | 2 according to IEC60664-1 |
| | PROTECTION TYPE | IP20 according to IEC60529 |
| SAFETY & EMC | SAFETY STANDARDS | EAC TP TC 004 approved; Compliance to EN60669 |
| | KNX STANDARDS | ISO/IEC 14543-3, EN50090, EN13321-1 |
| | EMC EMISSION | Compliance to EN50491-5, EN61000-6, EAC TP TC 020 |
| | EMC IMMUNITY | Compliance to EN61000-4-2,3,4,5,6,11, EAC TP TC 020 |
| OTHERS | MTBF | 100K hrs min. |
| | DIMENSION | 36*90*71mm (W*H*D) |
| | DIN RAIL MOUNTING | 35 mm rail; 2 units wide |
| | PACKING | 0.076Kg; 1pcs |

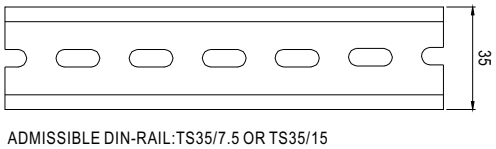


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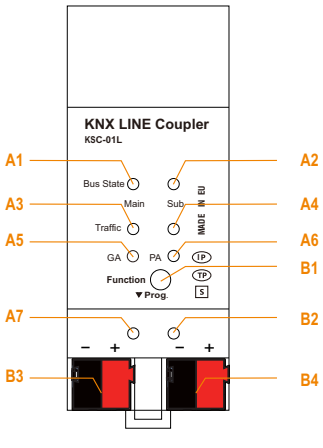
## ■ Mechanical Specification

Case No. Unit:mm




ADMISSIBLE DIN-RAIL:TS35/7.5 OR TS35/15




A1: **Bus state KNX TP (Main line)**
green: Main line OK
red: Manual Function active

A2: **Bus state KNX TP (Subline)**
green: Subline OK

A3: **Telegram traffic KNX TP (Main line)**
green, blink.: Telegram traffic extent
red, blink.: Transmission error

A4: **Telegram traffic KNX TP (Subline)**
green, blink.: Telegram traffic extent
red, blink.: Transmission error

A5: **Group Address routing**
green: Filter active
orange: Route all
red: Block all
<off>: Main line / subline different

A6: **Physical Address routing**
green: Filter active
orange: Route all
red: Block all
<off>: Main line / subline different

A7: **Programming**
red: Program Mode

B1: **Function button**

B2: **Program button**

B3: **KNX TP connector Main line**

B4: **KNX TP connector Subline**

## ■ Configuration and Commissioning

The application program(data base) for ETS can be downloaded via
http://www.meanwell.com/productCatalog.aspx

## ■ Installation Manual

Please refer to : http://www.meanwell.com/manual.html



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