

Technical Sheet For KNX Line Coupler

LC-LK001-KNX



The worldwide **STANDARD** for home and building control

CHARACTERISTICS

The coupler provides a data connection between two separate KNX bus lines and also isolates the bus lines from each other in order to enable the independent local operation of a bus line.

The coupler can be used as line coupler, backbone coupler or repeater as well in existing KNX networks as in new KNX networks. It has a filter table with the help of which bus telegrams are either blocked off from one of the two lines or are passed on to another line thus reducing the bus load. The filter table is created by the ETS (KNX Tool Software) automatically on commissioning the system.

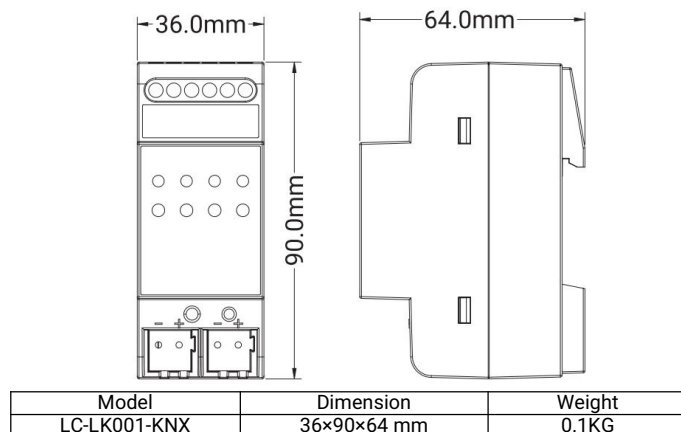
Used as a line coupler when the physical address is "x.x.0", otherwise it is a repeater.

Used as a line coupler, it joins up the lines with the main line to create a function zone; as a backbone coupler, it joins up the function zones with the overriding backbone line; as a repeater the coupler enables the connection of more than 64 bus devices to one bus line. Up to three repeaters can be connected to one bus line thus enabling the connection of a total of 252 bus devices (additionally to the three repeaters) to one bus line.

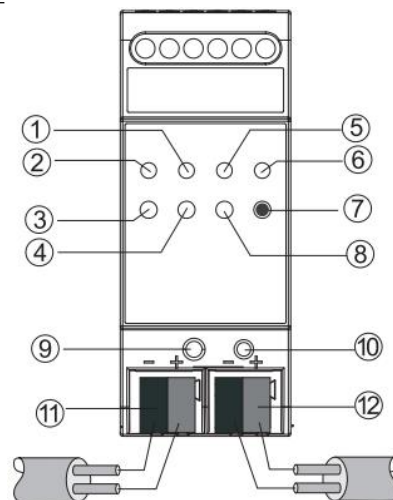
PARAMETERS

Power supply	Bus Main line	21-30V DC, used for power supply of the device
	Bus Sub line	21-30V DC
	Bus current	Main: <10mA/30V DC Sub: <5mA/30V DC
	Bus consumption	Main:<300mW, Sub: <150mW
Connections	KNX main/sub line	Bus connection terminal(Red/Black)
Operation and display	LED Bus Status Main	Green on: Main line ok Off: Main line error
	LED Bus Status Sub	Green on: Sub line ok Off: Sub line error or no connect
	Traffic Main LED	Green: Bus traffic on main line Red flashing: Traffic error on main line
	Traffic Sub LED	Green: Bus traffic on sub line Red flashing: Traffic error on sub line
	GA LED (Routing group telegrams, indicate according to the configuration of ETS parameter	Used as a line coupler: Green: Filter table active Red: Block; Green and Red: Route all Off: Main and sub different
	"Group telegrams (main groups 0...13)"	Used as a repeater: Green and Red: Route all
	PA LED (Routing physical addressed telegrams)	Green: Filter table active Red: Block; Green and Red: Route all Off: Main and sub different
	Programming/Running LED	Red: For assigning the physical address Green flashing: The device running normally
	Programming button	For assigning the physical address
	Function LED	Green: Enter manual override Off: Exit manual override
	Function button	Switch to manual override
Temperature	Operation	-5 °C ... + 45 °C
	Storage	-25 °C ... + 55 °C
	Transportation	- 25 °C ... + 70 °C
Ambient Design	Humidity	<93%, except dewing
	Standard 35mm DIN rail installation	

DIMENSIONS



DESCRIPTIONS



- | | |
|----------------------|----------------------------|
| ①Traffic Main LED | ⑦Function Button |
| ②Bus Status Main LED | ⑧GA LED |
| ③Bus Status Sub LED | ⑨Programming Button |
| ④Traffic Sub LED | ⑩Programming LED |
| ⑤PA LED | ⑪KNX connection: main line |
| ⑥Function Status LED | ⑫KNX connection: sub line |

INSTALLATION FIGURE

The devices are suitable for installation on the distribution boards with 35mm mounting rail which complies with DIN EN 60715 or a small box in order to facilitate quick installation of the device. Must ensure that the device operation, testing, detecting, maintenance correctly.

IMPORTANT INFORMATION

Installation and commissioning of the device may only be carried out by trained electricians. The relevant standards, directives, regulations and instructions must be observed when planning and implementing the electrical installation.

- Protect the device against moisture, dirt and damage during transport, storage and operation!

- Do not operate the device outside the specified technical data (e.g. temperature range)!

- The device may only be operated in closed enclosures (e.g. distribution boards).

Should the device become soiled, it may be cleaned with a dry cloth. If this does not suffice, a cloth lightly moistened with soap solution may be used. On no account should caustic agents or solvents be used.