



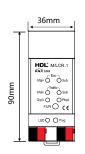
KNX Line Coupler



Issued: June 6, 2019



Figure 1. KNX Line Coupler



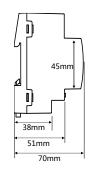


Figure 2. Dimensions - Front View Figure 3. Dimensions - Side View

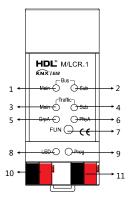


Figure 4. Components - Front View

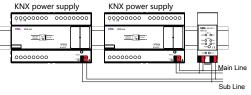


Figure 5. Wiring

Overview

KNX Line Coupler (See Figure 1) can be used as a line coupler or repeater (for address extension), which can be connected to a main line and a sub line when the device works as a line coupler. A separate power supply including a chock is required for each new line segment and each line will be electrically isolated. Through the line coupler, packet filtering can be carried out between the two lines, reducing the amount of telegrams, preventing interference, and maintaining efficient communication.

Functions

- The coupler is connected to KNX zone/line to enable zone/line isolation. Data packets can also be filtered to reduce telegram traffic and maintain good communications.
- When the device works as a branch coupler, the branch main line and branch sub-line can be connected.
 - When works as a region coupler, the region main line and branch Bus can be connected.
- The device can be used as a line coupler or repeater.
- 6 LEDs display data transmission status and 1 LED for programming status display

Important Notes

- Installation position Distribution board
- Programming The device is complaint with the KNX standard and the parameters are set by the Engineering Tool Software (ETS).
- It is not allowed to open the KNX Line Coupler case shell.
- KNX Bus voltage 21~30V DC, no AC power supply allowed.

Product Information

Dimensions - See Figure 2 - 3

Components - See Figure 4

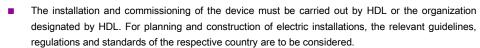
- 1. LED of Bus Main
- 2. LED of Bus Sub
- 3. LED of Traffic Main
- 4. LED of Traffic Sub
- 5. LED of group address filter status
- 6. LED of physical address filter status
- 7. Function button
- 8. Programming LED
- 9. Programming button
- 10. KNX-Bus connection: Main line
- 11. KNX-Bus connection: Sub line

Wiring - See Figure 5

Installation - See Figure 6 - 8

- Step 1. Fix the DIN rail with screws.
- Step 2. Buckle the bottom cap of the KNX Line Coupler on the edge of the DIN rail.
- Step 3. Press the device on the DIN rail, slide it and fix it up until an appropriate position is adjusted.

Safety Precautions



- HDL does not take responsibility for all the consequences caused by installation and wire connection that are not in accordance with this document.
- Please do not privately disassemble the device or change components, otherwise it may cause mechanical failure, electric shock, fire or body injury.
- Please resort to our customer service department or designated agencies for maintenance service. The warranty is not applicable for the product fault caused by private disassembly.

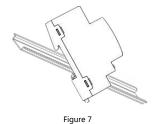
Package Contents

M/LCR.1*1 / Datasheet*1



Figure 6

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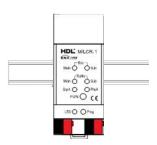


Figure 8

Figure 6 - 8. Installation

Technical support

E-mail: support@hdlautomation.com Website: https://www.hdlautomation.com

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Technical Data

l echnical Data				
Basic Parameters				
Working voltage	21~30V DC			
Communication	KNX/EIB			
Main line current	< 30mA			
Sub line current	3mA			
Cable diameter of KNX terminal	0.6 - 0.8mm			
External Environment				
Working temperature	-5°C~45°C			
Working relative humidity	≤90%			
Storage temperature	-20°C~ 60°C			
Storage relative humidity	≤93%			
Specifications				
Dimensions	90mm×36mm×70mm			
Net weight	68.4g			
Housing material	ABS			
Installation	35mm DIN rail installation (See Figure 6 - 8)			
Protection rating (Compliant with EN 60529)	IP20			

Name and Content of Hazardous Substances in Products

	Hazardous substances					
Components	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Chromium VI (Cr (VI))	Poly-brominated biphenyls (PBB)	Poly-brominated diphenyl ethers (PBDE)
Plastic	o	0	o	O	О	0
Hardware	О	0	o	О	-	-
Screw	О	0	o	×	-	-
Solder	×	0	o	0	-	-
PCB	×	0	o	0	0	0
IC	0	О	O	0	×	×

The symbol "-" indicates that the hazardous substance is not contained.

The symbol "o" indicates that the content of the hazardous substances in all the homogeneous materials of the component is below the limit requirement specified in the Standard IEC62321-2015.

The symbol "x" indicates that the content of the hazardous substance in at least one of the homogeneous materials of the part exceeds the limit requirement specified in the Standard IEC62321-2015.

KNX Cable Guide

KNX	KNX Cable
+	Red
<u>-</u>	Black