

ABB i-bus® KNX IP Router, MDRC IPR/S 3.1.1, 2CDG110175R0011



Product description

IP Router 3.1.1 is the interface between KNX installations and IP networks. It can be used as a line coupler or area coupler and can utilize the local network (LAN) for exchange of telegrams between lines/areas.

KNX devices can be programmed via LAN using ETS (five tunneling servers are available). The device uses the KNXnet/IP protocol from the KNX Association (routing and tunneling).

Alternatively, the device can communicate via unicast.

The device is powered by 12 to 30 V DC or PoE (Power over Ethernet).

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Technical data

Supply	Auxiliary voltage U_s	12...30 V DC (+10 % / -15 %) or PoE (IEEE 802.3af class 1)
	Power dissipation	Maximum 1.8 W
	Auxiliary voltage current consumption	Maximum 120 mA at 12 V
	Rated voltage U_n	12 V DC
	Current consumption KNX	< 10 mA
Connections	KNX	Bus connection terminal
	Plug-in terminal for operating voltage	Plug-in terminal
	LAN	RJ45 socket for 10/100BaseT, IEEE 802.3 networks, AutoSensing
Operating and display elements	Red LED and button	For assignment of the physical address
	Green "On" LED	Operation readiness indicator
	Yellow "LAN/Link" LED	Network connection indicator
	Yellow "Telegram" LED	KNX telegram traffic indicator
Protection degree	IP 20	To DIN EN 60 529
Protection class	II	To DIN EN 61 140
Isolation category	Overvoltage category	III according to DIN EN 60 664-1
	Pollution degree	2 according to DIN EN 60 664-1
KNX safety extra low voltage	SELV 30VDC	
Temperature range	Operation	-5...+45 °C
	Storage	-25...+55 °C
	Transport	-25...+70 °C
Ambient conditions	Maximum air humidity	95 %, no condensation allowed
	Atmospheric pressure	Atmosphere up to 2,000 m
Design	Modular installation device (MDRC)	Modular installation device, ProM
	Overall dimensions	90 x 36 x 64 mm (H x W x D)
	Mounting width	2x 18 mm modules
	Mounting depth	68 mm
Installation	On 35 mm mounting rail	To DIN EN 60 715
Mounting position	Any	
Weight	0.1 kg	
Housing, color	Plastic, halogen free, gray	
Approvals	KNX to EN 50 090-1, -2	
CE mark	In accordance with the EMC directive and low voltage directive	

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Device type	Application	Maximum number of communication objects	Maximum number of group addresses	Maximum number of assignments
IPR/S 3.1.1	IP Router/...*	0	0	0

* ... = Current version number of the application. **Please refer to the software information on our website for this purpose.**

Note

For a detailed description of the application see „*IP Router IPR/S 3.1.1*“ product manual. It is available free-of-charge at www.abb.com/knx.

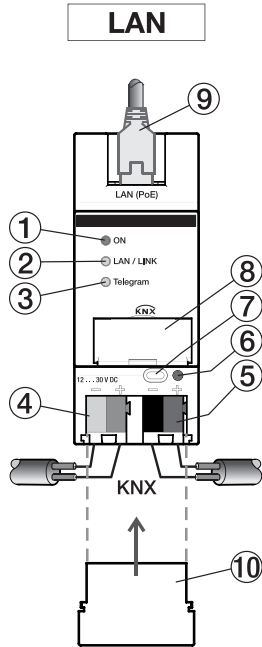
ETS and the current version of the device application are required for programming.

The current application can be found with the corresponding software information for download on the Internet at www.abb.com/knx. After import into ETS, it appears in the *Catalogs* window under *Manufacturers/ABB/System components/Coupler*.

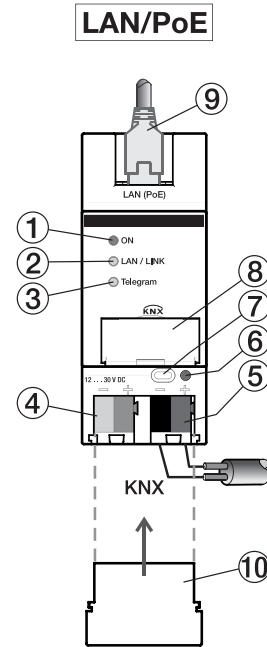
The device does not support the locking function of a KNX device in ETS. If you use a *BCU code* to inhibit access to all the project devices, it has no effect on this device. Data can still be read and programmed.

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Connection schematics



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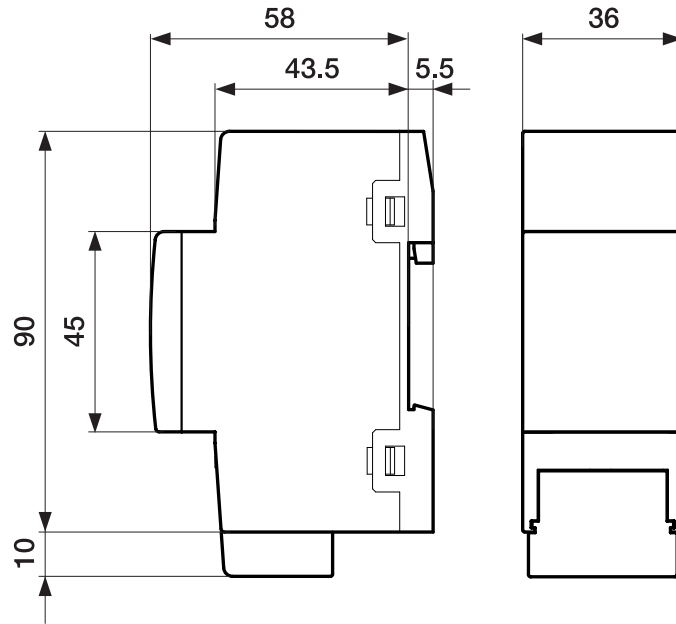


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- 1 ON LED
- 2 LAN/LINK LED
- 3 Telegram LED
- 4 Power supply connection
- 5 KNX connection
- 6 Programming LED
- 7 Programming button
- 8 Label carrier
- 9 LAN or LAN/PoE connection
- 10 Cover cap

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Dimension drawing



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