IP Router, MDRC
IPR/S 2.1, 2CDG 110 061 R0011

2CDC 071 045 F0007

The IP Router 2.1 is a modular installation device (MDRC) and forms the interface between KNX installations and IP networks. It can be used as a fast line and area coupler and can utilise the local network (LAN) for fast exchange of telegrams between the lines/areas.

KNX devices can be programmed via the LAN using ETS 3.0. The device uses the KNXnet/IP protocol from the KNX Association (Routing and Tunnelling).

The IP address can be fixed or can be received from a DHCP server.

The power supply range is from 10 to 30 V DC.

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Technical data

Supply	Supply voltage U_s	10…30 V DC via plug-in terminal Ripple: < 5 %
	Power consumption	Maximum 1.9 W at 10 V
	Current consumption	Maximum 190 mA at 10 V
	Leakage loss	Maximum 1.9 W at 10 V
	Rated voltage U_n	12 V DC
	Rated current I_n	145 mA at 12 V
	Current consumption KNX	From 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	LED red and button	For assignment of the physical address
	LED green	Operating mode display
	LED yellow	Network connection indicator
		KNX telegram traffic indicator
Enclosure	IP 20	To DIN EN 60529
Safety class	II	To DIN EN 61140
Isolation category	Overvoltage category	III to DIN EN 60664-1
	Pollution degree	2 to DIN EN 60664-1
KNX safety extra low voltage	SELV 24 V DC	
Temperature range	Operation	0 °C…+45 °C
	Storage	-25 °C…+55 °C
	Transport	-25 °C…+70 °C
Ambient conditions	Maximum air humidity	93 %, no condensation allowed
Design	Modular installation device (MDRC)	Modular installation device, Pro*M*
	Dimensions	90 x 36 x 64 mm (H x W x D)
	Mounting width	2 modules at 18 mm
	Mounting depth	68 mm
Installation	On 35 mm mounting rail	To DIN EN 60 715

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Mounting position	as required
Weight	0.100 kg
Housing, colour	Plastic housing, grey
Approvals	KNX to EN 50 090-1, -2
CE mark	In accordance with the EMC guideline and low voltage guideline

Application program	Maximum number of communication objects	Maximum number of group addresses	Maximum number of associations
Routing	0	0	0

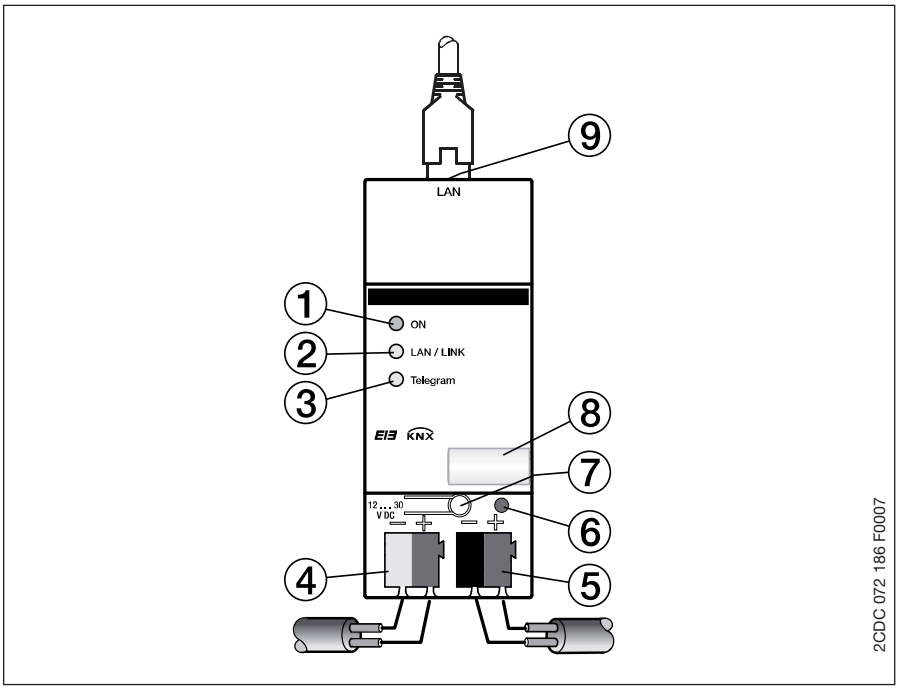
Note

For a detailed description of the application program see “IP Router IPR/S 2.1” product manual. It is available free-of-charge at www.ABB.de/KNX.

The programming requires EIB Software Tool ETS3 V3.0e or higher. If ETS3 is used a *.VD3 or higher type file must be imported. The application program is available in the ETS3 at ABB/System devices/Routing.

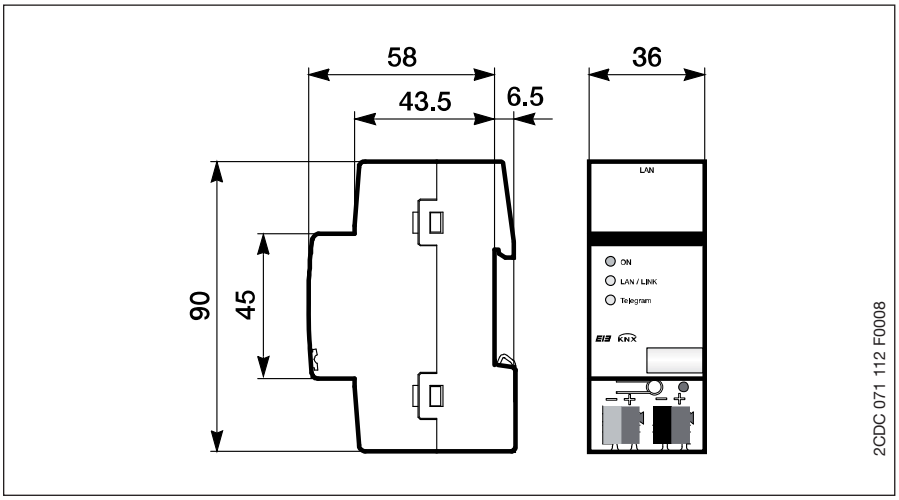
The device does not support the closing function of a project or the KNX device in the ETS. If you inhibit access to all devices of the project with a *BCU code* (ETS3), it has no effect on this device. Data can still be read and programmed.

Circuit diagram



1 LED ON
2 LED LAN/LINK
3 LED telegram
4 Supply voltage connection
5 KNX connection
6 Programming LED
7 Programming button
8 Label carrier
9 LAN connection

Dimension drawing



Notes

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