

TECHNICAL DATA

# ABB i-bus® KNX

## HIL/S 20.1.1, Hotel IP Link, Bundle



### Description of product HIL/S 20.1.1 Hotel IP Link, Bundle

The Hotel IP Link is used to connect zones of up to 20 KNX TP devices with central systems (such as Visualizations or Hotel Management Systems).

The bundle consists of 2 components:

#### SV/S 30.200.3.1 Power Supply Zone

The KNX power supply generates and monitors the KNX system voltage (SELV). The bus line is decoupled from the power supply by an integrated choke. The voltage output is short-circuit and overload protected. The two-color LED indicates device output status.

The additional 30 V DC short-circuit and overload protected voltage output is used to power the IPS/S 2.1.

#### IPS/S2.1 IP Interface

The IP Interface is a modular installation device (MDRC) and forms the interface between KNX installations and IP networks.

KNX devices can be programmed via the LAN using ETS 3.0f or higher. The device uses the KNXnet/IP protocol from the KNX Association (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.

Technical data SV/S 30.200.3.1		
<b>Supply</b>	Supply voltage $U_s$	100 – 240 V AC, (+10 %/–15 %), 50/60 Hz (85...265 V AC)
	Power consumption	Normal operation 12.5 W      Maximum 30 W
	Power loss	Normal operation 2.5 W      Maximum 6 W
<b>Outputs</b>	KNX voltage output $U_{n1}$	1 line with integrated choke for 20 devices
	- Rated voltage $U_{n1}$	30 V DC +1/-2 V, SELV
	Voltage output $U_{n2}$	without choke
	- Rated voltage $U_{n2}$	30 V DC +1/-1 V, SELV The voltage output without choke may only be used to power the IPS/S 2.1.
	Current	Rated current $I_{n1}$ 200 mA
	Current	Overload current $I_{ÜL}$ 0.4 A
	Current	Short-circuit current $I_k$ 0.7 A
	Power failure buffering time	100 ms
<b>Connections</b>	KNX	Bus connection terminal
	Mains voltage input and Auxiliary Output $U_{n2}$	Screw terminal 0.2...2.5 mm <sup>2</sup> fine-strand 0.2...4 mm <sup>2</sup> solid
	Tightening torque	Maximum 0.6 Nm
<b>Operating and display elements</b>	LED status (two-colored green/red)	Green: $U_{n1} = \text{OK}$ , $I < I_{ÜL}$ Red: overload Red, flashing: short-circuit
<b>Degree of protection</b>	IP 20	to DIN EN 60 529
<b>Protection class</b>	II	to DIN EN 61 140
<b>Isolation category</b>	Overtoltage category	III to DIN EN 60 664-1
	Pollution degree	2 to DIN EN 60 664-1
<b>Temperature range</b>	Operation	- 5 °C...+45 °C
	Storage	-25 °C...+55 °C
	Transport	-25 °C...+70 °C
<b>Ambient conditions</b>	Maximum air humidity	95 %, no condensation allowed
<b>Design</b>	Modular installation device (MDRC)	Modular installation device, Pro M
	Main dimensions	90 x 72 x 64.5 mm (H x W x D)
	Mounting width	4 x 18 mm modules
	Mounting depth	64.5 mm
<b>Mounting</b>	On 35 mm mounting rail	to DIN EN 60 715
<b>Mounting position</b>	As required	
<b>Weight</b>	Approx. 0.26 kg	
<b>Housing, color</b>	Plastic housing, gray	
<b>Approvals</b>	KNX under EN 50 090-1, -2	
<b>CE mark</b>	In accordance with the EMC guideline and low voltage guideline	

<b>Technical data IPS/S 2.1 IP Interface</b>		
<b>Supply</b>	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
<b>Connections</b>	KNX	Bus connection terminal
	Plug-in terminal for operating voltage	Plug-in terminal
	LAN	RJ45 socket for 10/100BaseT, IEEE 802.3 networks, AutoSensing
<b>Operating and display elements</b>	LED red and button	For assignment of the physical address
	LED green	Operating mode display
	LED yellow	Network connection indicator KNX telegram traffic indicator
<b>Enclosure</b>	IP 20	to DIN EN 60 529
<b>Safety class</b>	II	to DIN EN 61 140
<b>Isolation category</b>	Overtoltage category	III to DIN EN 60 664-1
	Pollution degree	2 to DIN EN 60 664-1
<b>KNX safety extra low voltage</b>	SELV 24 V DC	
<b>Temperature range</b>	Operation	0 °C...+45 °C
	Storage	-25 °C...+55 °C
	Transport	-25 °C...+70 °C
<b>Ambient conditions</b>	Maximum air humidity	95 %, no condensation allowed
<b>Design</b>	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
<b>Installation</b>	On 35 mm mounting rail	to DIN EN 60 715
<b>Mounting position</b>	As required	
<b>Weight</b>	0.100 kg	
<b>Housing, colour</b>	Plastic housing, grey	
<b>Approvals</b>	KNX to EN 50 090-1, -2	
<b>CE mark</b>	In accordance with the EMC guideline and low voltage guideline	

<b>Software</b>				
Device type	Application	Max. number of group objects	Max. number of group addresses	Max. number of associations
IP/S 2.1	IP Interface	0	0	0

<b>Ordering details</b>					
Device type	Product Name	Order No.	bbn 40 16779 EAN	Weight 1 pcs. [kg]	Packaging [pcs.]
HIL/S 20.1.1	Hotel IP Link, Bundle, MDRC	2CDG110237R0011	01581 3	0,36	1

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**NOTE**

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/Interfaces.  
 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.

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**IMPORTANT**

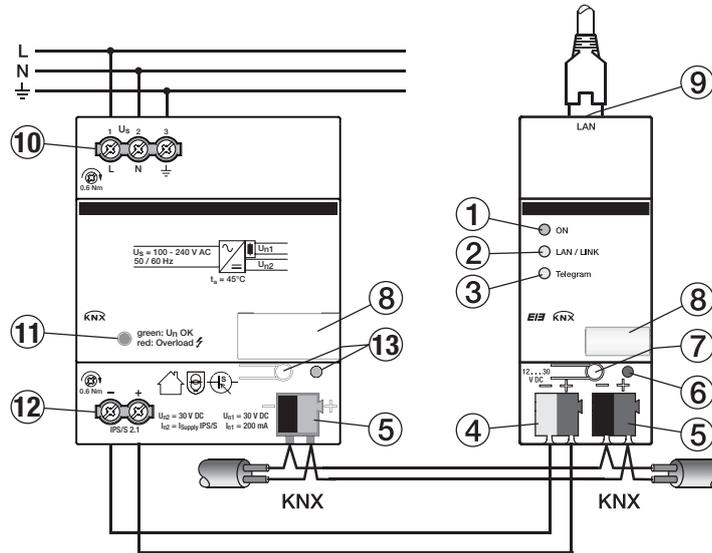
If the device overheats due to extended overload (> 100 °C in housing) it switches off automatically. The LED is off. The device can be switched on again only after it has been disconnected from the mains for 60 seconds and has cooled to operational temperature internally. Eliminate the cause of the overload before switching back on.

When commissioning the device, ensure that the rated current is not continuously exceeded.

The voltage output without choke ( $U_{n2}$ ) is not electrically isolated from the KNX voltage output ( $U_{n1}$ ). It may only be used to power the IPS/S 2.1.

Devices are designed for continuous operation. They are not approved for frequent switching on and off.

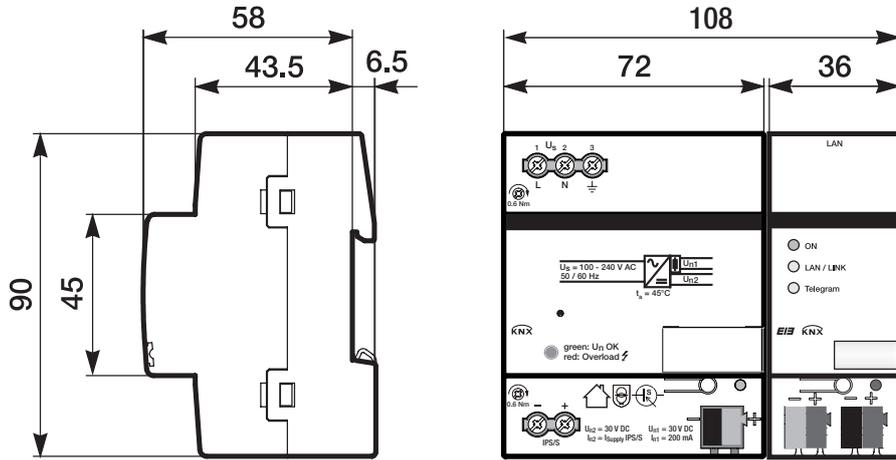
### Connection



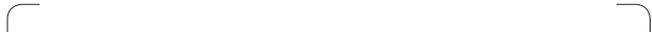
### LEGENDE

- 1 ON LED
- 2 LAN/LINK LED
- 3 Telegram LED
- 4 Supply voltage connection
- 5 Bus connection terminal
- 6 Programming LED
- 7 Programming button
- 8 Label carrier
- 9 LAN connection
- 10 Power supply connection  $U_s$
- 11 Status LED
- 12 IPS/S 2.1 connection
- 13 without function

Dimension drawing



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