



The 1-fold EIB / DALI Gateway DG/S 1.1 is a modular installation device in *proM* design (4 MW) for installation in the distribution board on 35 mm mounting rails. The DALI gateway can integrate devices with DALI interfaces into an EIB / KNX building installation.

Up to 64 DALI slaves can be connected to a main channel A. Each one of the 64 devices is individual addressable and can be directly switched, dimmed or set the brightness with just one EIB / KNX communication object. A further 64 individual addressable DALI devices can be connected on a second auxiliary channel B.

This channel is primarily used as broadcast channel. In combination with an external logic or a visualisation it is possible via two communication objects to control each DALI device.

The DALI address assignment is implemented automatically by the DALI gateway. The DALI slaves are immediately ready for control. With the DGS11-Software-Tool it is possible to change the DALI address according to individual project requirements.

The DALI gateway DG/S 1.1 is a DALI controller (master) and requires an additional AC or DC voltage. No DALI power supply is required. The DALI current sources for 2 x 64 DALI slaves are integrated into the gateway.

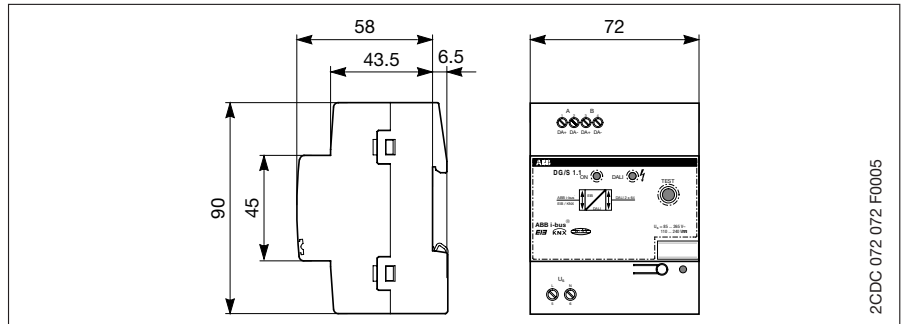
Technical Data

Operating voltage	- Mains voltage	85...265 V AC, 50/60 Hz, 110...240 V DC
	- Total power consumption from the system	max. 12.5 W at 230 V AC and max. load
	- Total current input from the system	max. 55 mA at 230 V AC and max. load
	- Total leakage loss from the device	max. 6 W at 230 V AC and max. load
	- Current input via the EIB	< 10 mA at 29 V DC
	- Power consumption via the EIB	< 150 mW
DALI outputs (channels)	- Number channels	2 independent acc., to IEC 60929/62386 Main channel: 64 individually controlled Auxiliary channel: 64 broadcast controlled
	- Number of DALI devices	128 (max. 64 per output)
	- Cable length per output	
	- Cable cross-section	0.5 mm ² 100 m 0.75 mm ² 150 m 1.0 mm ² 200 m 1.5 mm ² 300 m
Connections	- EIB / KNX	Screwless bus connection terminal, 0.6 to 0.8 mm Ø, single-core
	- DALI outputs and	Screw terminal
	- Mains voltage	0.2 ... 2.5 mm ² finely stranded 0.2 ... 4 mm ² single-core
Operating and display elements	- Tightening torque	max. 0.6 Nm
	- EIB push button and red LED	For assigning the physical EIB address
	- DALI-Test button	For checking the DALI outputs
	- Green LED	For displaying power on
Type of protection	- IP 20	In accordance with DIN EN 60529
	- II	In accordance with DIN EN 61140
	- Overvoltage category	III in accordance with DIN EN 60664-1
	- Degree of pollution	2 in accordance with DIN EN 60664-1
EIB / KNX safety extra-low voltage	- SELV 24 V DC	In acc. to IEC60929/62386
Typical DALI voltage	- 16 V DC (9.5 ... 22.5 V DC)	In acc. to IEC60929/62386
Temperature range	- Operation	- 5 °C ... + 45 °C
	- Storage	- 25 °C ... + 55 °C
	- Transport	- 25 °C ... + 70 °C
Design	- DIN rail mounted device	Modular installation device, <i>proM</i>
	- Dimensions	90 x 72 x 64 mm (H x W x D)
	- Mounting width	6 modules at 18 mm
	- Mounting depth	68 mm
Installation	- on 35 mm mounting rail	DIN EN 60 715
Mounting position	- As required	
Weight	- 0.190 kg	
Housing, colour	- Plastic, grey	
Certification	- EIB / KNX in accordance with EN 50 090-1, -2 Certificate	
CE mark	- In accordance with the EMC and low voltage guideline	

Application programs	Number of communication objects	Max. number of group addresses	Max. number of associations
Dim Slave Lightscenes Dynamic 1f/1	251	254	254

See the product manual "DALI Gateway DG/S 1.1" for a detailed description of the application program. The manual is available free of charge on the Internet at www.abb.de/eib.

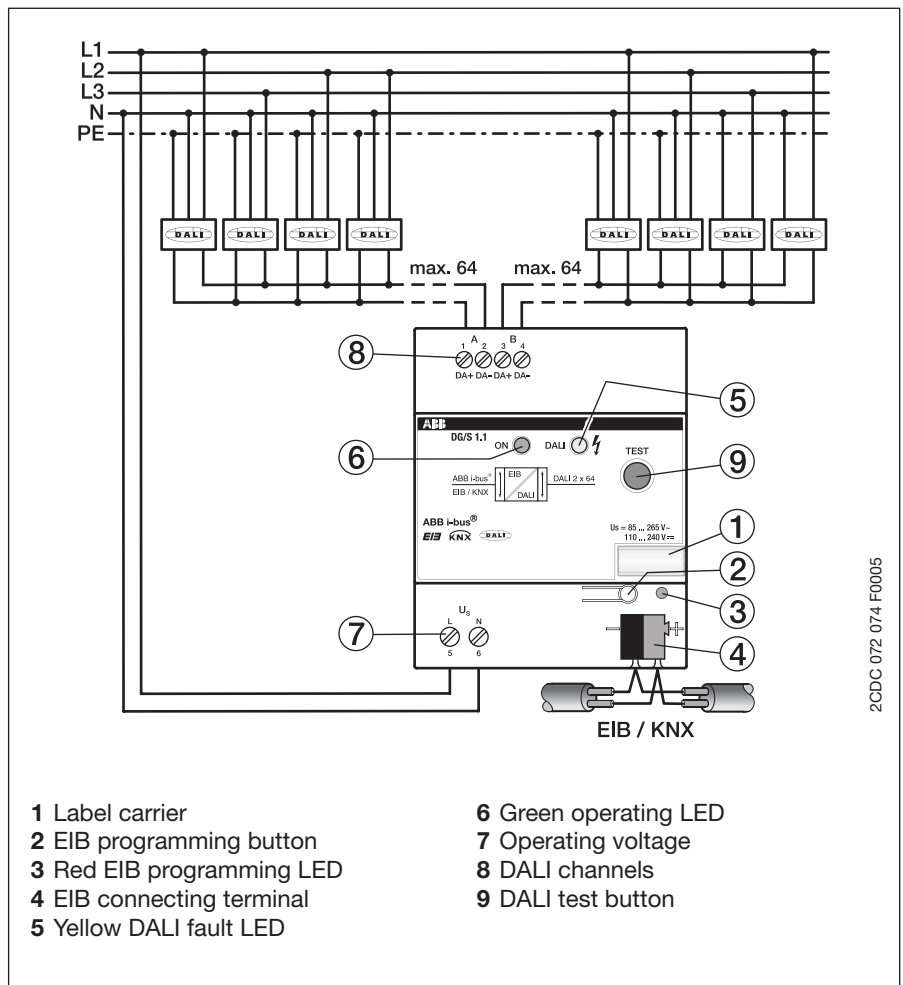
Dimension drawing



2CDC 072 072 F0005

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Wiring diagram



2CDC 072 074 F0005

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- 1 Label carrier
- 2 EIB programming button
- 3 Red EIB programming LED
- 4 EIB connecting terminal
- 5 Yellow DALI fault LED
- 6 Green operating LED
- 7 Operating voltage
- 8 DALI channels
- 9 DALI test button

Note

The programming is carried out with ETS from version ETS2 V1.2a onwards. The corresponding VD3 file must be used for programming in ETS3.