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. These channel is primary used as broadcast channel. In combination with an extern 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 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
- Current input via the EIB: max. 6 W at 230 V AC and max. load
- Power consumption via the EIB: < 10 mA at 29 V DC
- Leakage loss from the device: < 150 mW

#### DALI outputs (channels)
- Number of DALI devices: 128 (max. 64 per output)
- Number of DALI devices: 64 on main channel
- Cable length per output: 100 m
- Cable cross-section: 0.5 mm²
- Cable cross-section: 0.75 mm²
- Cable cross-section: 1.0 mm²
- Cable cross-section: 1.5 mm²
- Cable cross-section: 2.5 mm²

#### Connections
- EIB / KNX: Screwless bus connection terminal, 0.6 to 0.8 mm Ø, single-core
- DALI outputs: Screw terminal
- Mains voltage: 0.2 ... 2.5 mm² finely stranded
- Mains voltage: 0.2 ... 4 mm² single-core
- Tightening torque: max. 0.6 Nm

#### Operating and display elements
- EIB push button and red LED: For assigning the physical EIB adress
- DALI-Test button: For checking the DALI outputs
- Green LED: For displaying power on
- Yellow LED: For displaying DALI fault, constant light
  - For displaying test mode, slow flashing
  - For displaying initialisation, fast flashing

#### Type of protection
- IP 20: In accordance with DIN EN 60529
- Protection class: II
- Insulation category: 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, proM
- Dimensions: 90 x 72 x 64 mm (H x W x D)
- Mounting width: 6 modules at 18 mm
- Mounting depth: 68 mm
- Mounting depth: 120 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
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.

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