### DALI Gateway, 8-fold, MDRC

**DG/S 8.1, 2CDG 110 025 R011**

The DALI gateway is a DIN rail mounted device for insertion in the distribution board on a DIN rail. It is used to control DALI devices e.g. electronic ballasts, transformers, relays etc. via the EIB/KNX.

Up to 128 DALI devices (max. 16 per output) can be connected to 8 independent DALI outputs (channels).

Each output can also be switched in sequence without an EIB/KNX connection using the test button.

#### The following functions can be implemented:
- Per channel: switching, dimming, value setting, slave mode, lamp burning, status value, electronic ballast and lamp failure.
- Management of up to 16 lightscenes.
- Manual addressing or DALI commissioning of the connected DALI devices is not necessary.
- The DALI power supply is integrated in 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: 8 independent channels acc. to IEC 60929
- Number of DALI devices: 128 (max. 16 per output)
- Cable length per output
  - Cable cross-section: 0.5 mm², 116 m
  - 0.75 mm², 174 m
  - 1.0 mm², 232 m
  - 1.5 mm², 300 m

#### Connections
- EIB / KNX: Screwless bus connection terminal, 0.6 to 0.8 mm ø, single-core
- DALI outputs and Mains voltage: Screw terminal 0.2 … 2.5 mm² finely stranded 0.2 … 4 mm² single-core
- Tightening torque max. 0.6 Nm
- EIB programming button: For displaying the physical address
- Test button: For checking the DALI outputs
- Red LED and push button: For assigning the physical address
- Green LED: For displaying readiness for operation
- Yellow LED: For displaying DALI fault, constant light
  - For displaying test mode, flashing light

#### Type of protection
- IP 20: In accordance with DIN EN 60529
- Protection class: II in accordance with DIN EN 61 140
- 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 accordance with DIN IEC 60292
- Typical DALI voltage: 16 V DC (9.5 … 22.5 V DC) In accordance with DIN IEC 60292

#### 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 108 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
- In accordance with the EMC and low voltage guideline
See the product manual "DALI Gateway DG/S 8.1" for a detailed description of the application program. The manual is available free of charge on the Internet at www.abb.de/eib.

**Application programs**

<table>
<thead>
<tr>
<th>Communication objects</th>
<th>Max. group addresses</th>
<th>Max. number of associations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dim Slave Lightscenes Dynamic 8f/1</td>
<td>104</td>
<td>254</td>
</tr>
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</table>

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

**Note**

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**Dimension drawing**

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