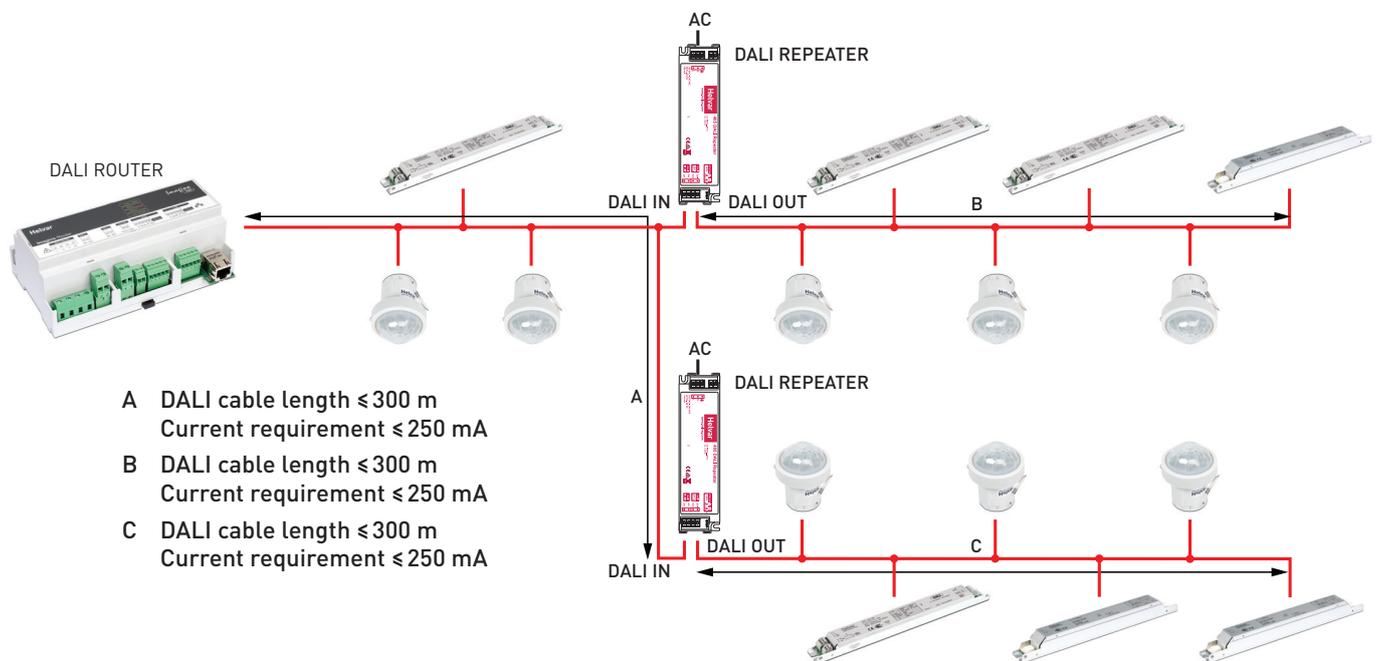


DALI Repeater (405)

The 405 DALI Repeater extends the maximum DALI line length from 300 m to 600 m and provides an additional 250 mA of DALI current. This device does not provide additional DALI addresses. The DALI limit of 64 addresses still applies.

The existing DALI network is connected to the DALI-IN side, and the extended network is connected to the DALI-OUT side. The DALI-IN side is powered by the network, whereas the DALI-OUT side is fed by the repeater. Mains power must be provided to the repeater.

Several DALI repeaters can be connected in parallel at the DALI-IN side (as shown in the following figure). Connecting multiple DALI repeaters in series is not possible, due to propagation delay. Do not cascade.



The DALI Repeater has two LEDs, red and green (see 'Connections'). They flash to indicate the following:

- Red is off, green is on: Normal operation.
- Red is off, green blinks off briefly: DALI commands are sent and received.
- Red blinks, green is off: Connection fault.
- Red blinks, green blinks: DALI-OUT side is shorted.

The unit also has an input (see 'Connections') for future use. This is not used in the current version. *Do not connect anything to it.*

Key Features

- Extends the maximum DALI line length from 300 m to 600 m.
- Provides 250 mA current at the DALI-OUT side.
- Messages are unfiltered.
- No isolation between DALI IN and DALI OUT. Both are isolated from the mains input.
- Click-on strain relief for standalone installation (included).

Technical Data

Electrical data

Supply: 100 VAC – 240 VAC (nominal)
85 VAC – 264 VAC (absolute)
48 Hz – 62 Hz

Current consumption: 100 mA

External protection: 6 A MCB maximum

Mains cable: 0.5 mm² – 1.5 mm² solid or stranded

DALI

DALI addresses: None

DALI consumption: 2 mA (DALI-IN side)

DALI cables: 0.5 mm² – 1.5 mm²
DALI cables must be mains rated.

DALI-OUT current: 250 mA

Mechanical data

Dimensions: 184 mm × 46.5 mm × 28 mm
With strain relief: 225 mm × 46.5 mm × 28 mm

Weight: 150 g

Mounting: Cable clamps with strain relief for standalone installation

IP code: IP20

Operating and storage conditions

Ambient temperature: –20 °C to +50 °C

Relative humidity: Max. 90 %, noncondensing

Storage temperature: –20 °C to +70 °C

t_c: +75 °C

Conformity and standards

DALI standard: IEC 62386-101

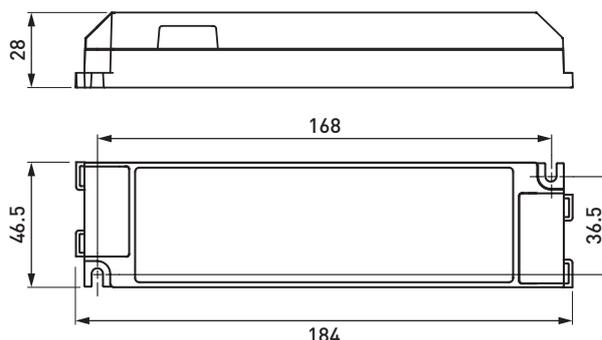
EMC emission: EN 55015

EMC immunity: EN 61547

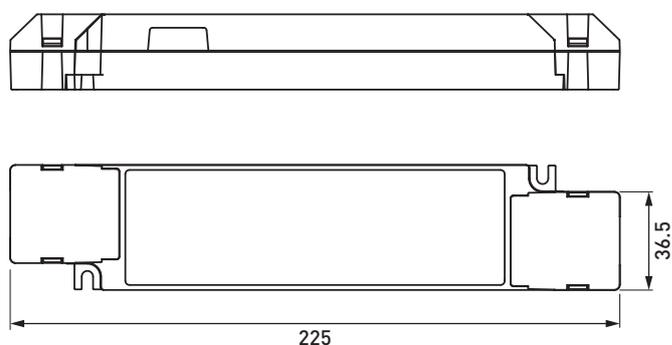
Safety: EN 61347-2-11

Environment: Complies with WEEE and RoHS directives.

Dimensions (mm)



With strain relief (included)



Connections

