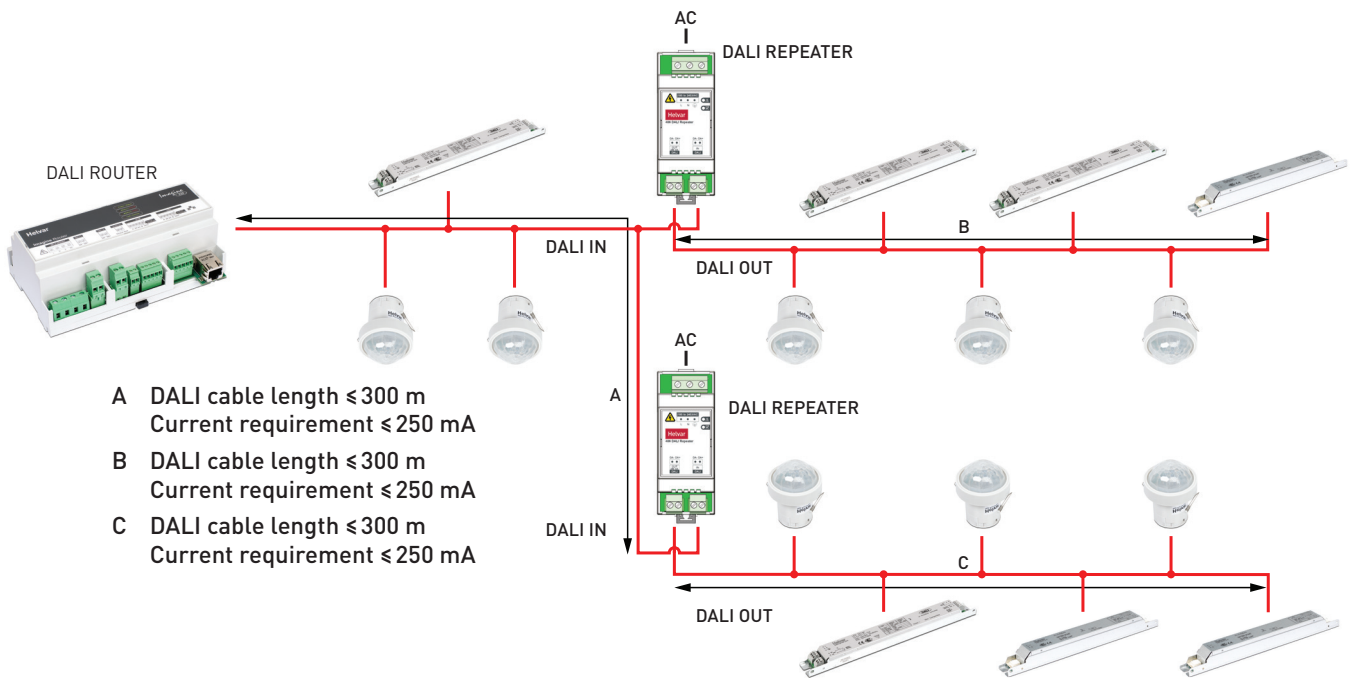
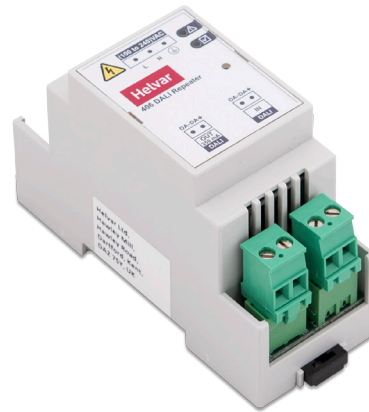


# DALI Repeater (406)

The DIN rail mounted 406 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.

## 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.

## 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 mm<sup>2</sup> – 1.5 mm<sup>2</sup> solid or stranded

### DALI

**DALI addresses:** None

**DALI consumption:** 2 mA (DALI-IN side)

**DALI cable:** 0.5 mm<sup>2</sup> – 1.5 mm<sup>2</sup>  
DALI cables must be mains rated.

**DALI-OUT current:** 250 mA

### Mechanical data

**Dimensions:** 35 mm × 90 mm × 58 mm

**Weight:** 90 g

**Mounting:** DIN rail (installation in switchgear/controlgear cabinet)

**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

### Conformity and standards

**DALI standard:** IEC 62386-101

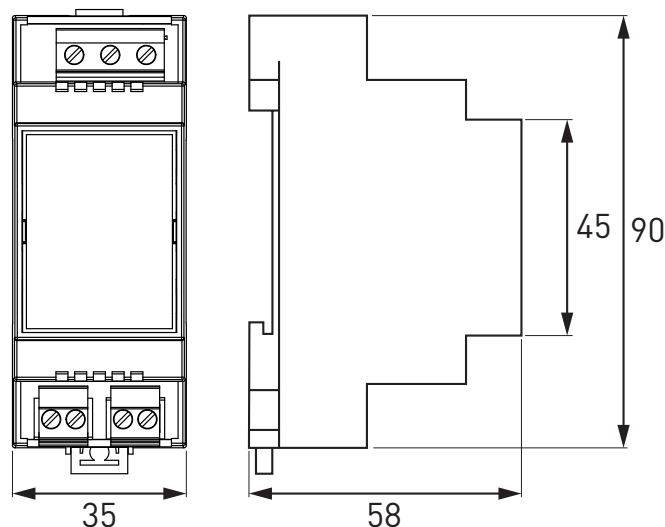
**EMC emission:** EN 55015

**EMC immunity:** EN 61547

**Safety:** EN 61347-2-11

**Environment:** Complies with WEEE and RoHS directives.

### Dimensions (mm)



### Connections

