

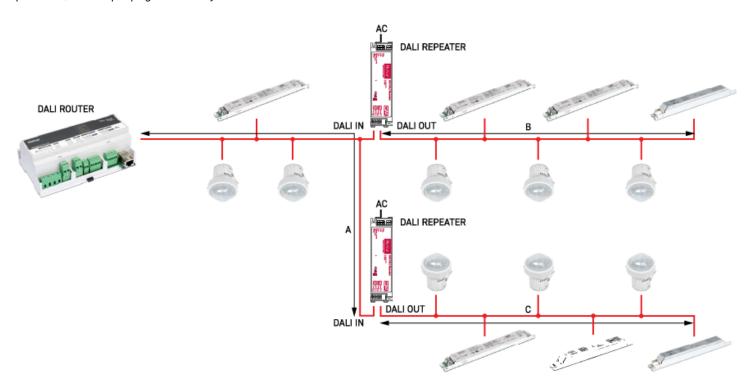
# 405 DALI Repeater

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.





A: DALI cable length ≤300 m, Current requirement ≤250 mA

B: DALI cable length ≤300 m Current requirement ≤250 mA

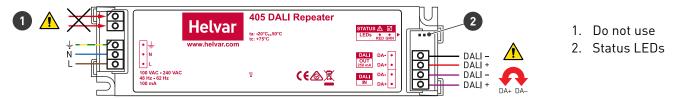
C: DALI cable length ≤300 m Current requirement ≤250 mA



# **Key Features**

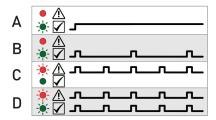
- Extends the maximum DALI line length from 300 m to 600 m
- Provides 250 mA current at the DALI-OUT side
- Messages are unfiltered
- No isolation between DALI IN and DALI OUT. Both are isolated from the mains input
- Click-on strain relief for standalone installation (included)

## **Connections**



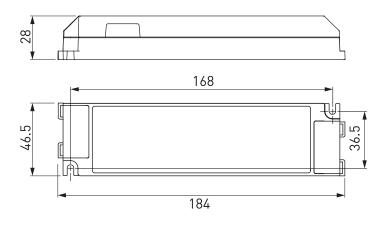
Note: 1. is reserved for future designs and is not used in the current version. Do not connect anything to it!

#### Status LEDs



- A: Normal operation
- B: Traffic / Activity
- C: Connection fault
- D: DALI-OUT is shorted.

# Dimensions (mm)



# With strain relief (included)



## **Technical Data**

#### Connections

Mains: Wire section: 0.5–1.5 mm<sup>2</sup>,

solid or stranded

DALI: Wire section: 0.5–1.5 mm<sup>2</sup>,

solid or stranded.

Cable rating: All cables must be mains

rated.

#### Electrical data

Mains supply: 100 –240 VAC, 50/60 Hz

Current consumption: 100 mA Max.

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

DALI output current: 250 mA

DALI addresses: None

External protection: 10 A MCB maximum

### Operating and storage conditions

Ambient temperature: -20 °C to +50 °C

Relative humidity: Max. 90 %, noncondensing

Storage temperature: -20 °C to +70 °C

t<sub>c</sub>: +75 °C

#### Mechanical data

Dimensions, (with strain  $184 \times 46.5 \times 28 \text{ mm}$ 

relief):

 $(225 \times 46.5 \times 28 \text{ mm})$ 

Mounting: Cable clamps with strain

relief for standalone

installation

Weight: 150 g

IP rating: IP20

## Conformity and standards

Conformity:

DALI: IEC 62386-101

EMC emission: EN 55015
EMC immunity: EN 61547

Safety: EN 61347-2-11

Environment: Complies with WEEE and

RoHS directives.