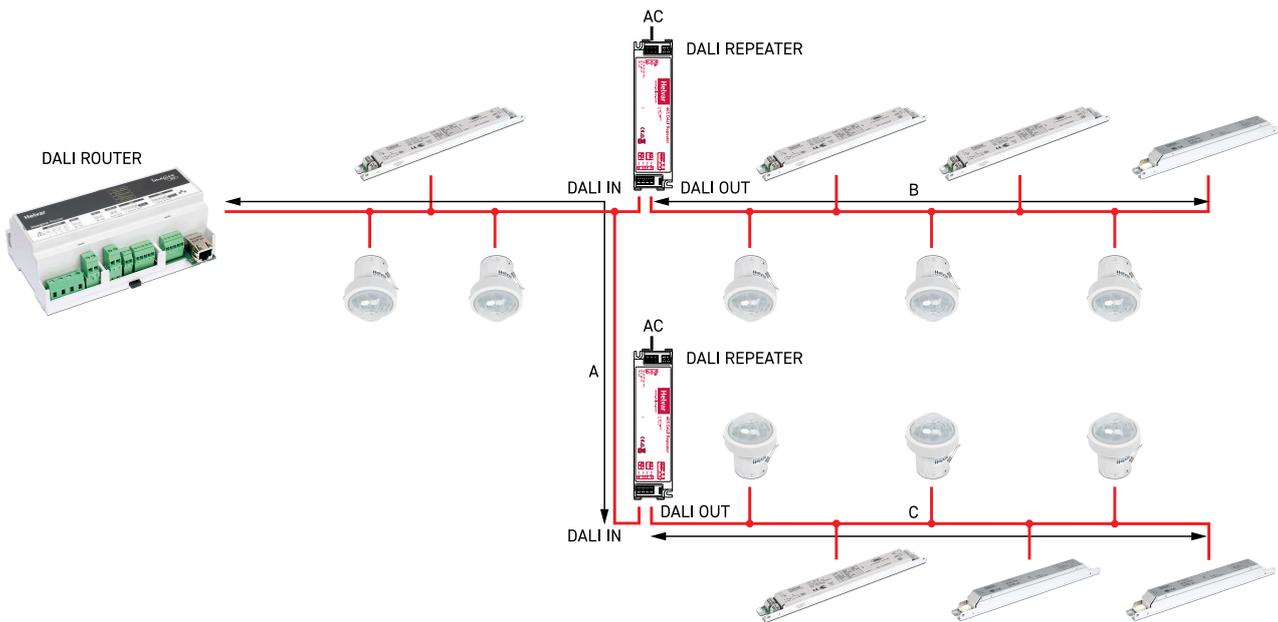


# 405 DALI Repeater

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  $\leq 300$  m, Current requirement  $\leq 250$  mA

B: DALI cable length  $\leq 300$  m Current requirement  $\leq 250$  mA

C: DALI cable length  $\leq 300$  m Current requirement  $\leq 250$  mA

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.

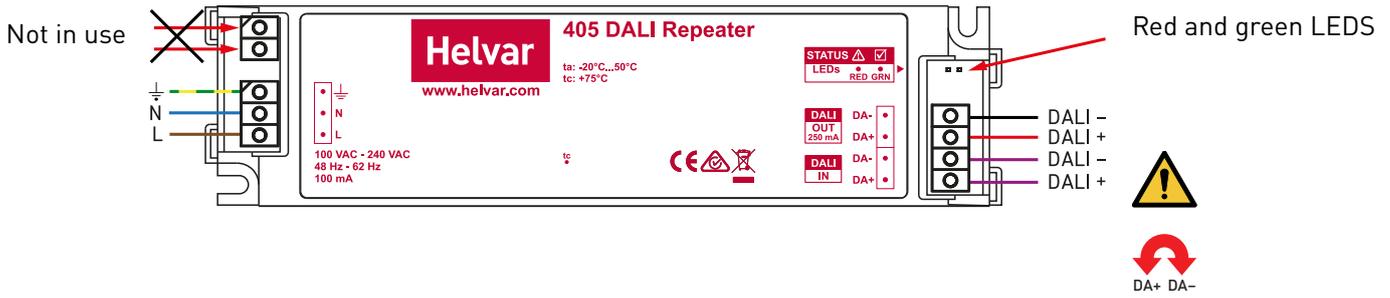


Note: The unit also has an input (see 'Connections') for future use. This is not used in the current version. Do not connect anything to it.

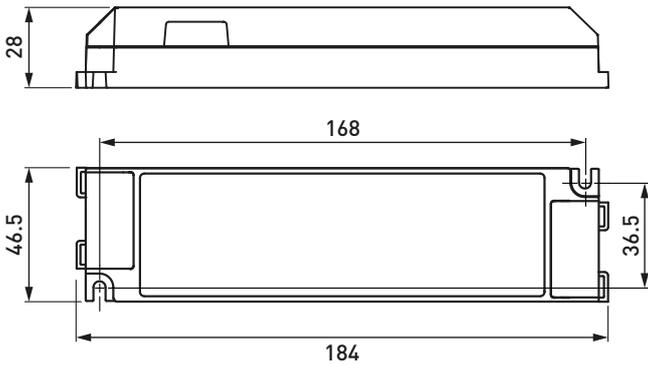
## Key Features

- 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).

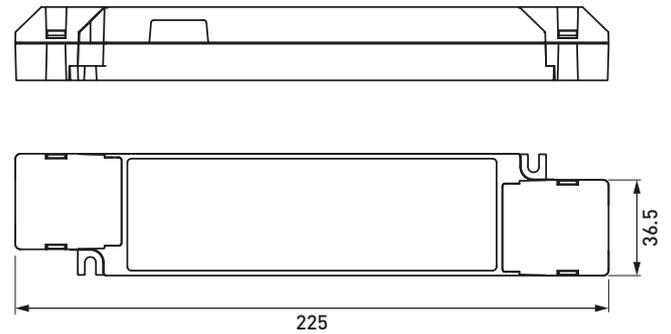
# Connections



# Dimensions (mm)



With strain relief (included)



# Technical Data

DALI	
DALI cable:	0.5 mm <sup>2</sup> – 1.5 mm <sup>2</sup> DALI cables must be mains rated.
DALI addresses:	None
DALI consumption:	2 mA (DALI-IN side)
DALI-OUT current:	250 mA

Electrical data	
Mains supply:	100 VAC – 240 VAC (nominal) 85 VAC – 264 VAC (absolute) 48 Hz – 62 Hz
Current consumption:	100 mA
External protection:	10 A MCB maximum
Mains cable:	0.5 mm <sup>2</sup> – 1.5 mm <sup>2</sup> solid or stranded

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 relief):	184 mm × 46.5 mm × 28 mm (225 mm × 46.5 mm × 28 mm)
Mounting:	Cable clamps with strain relief for standalone installation
Weight:	150 g
IP rating:	IP20

Conformity and standards	
Conformity:	
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.