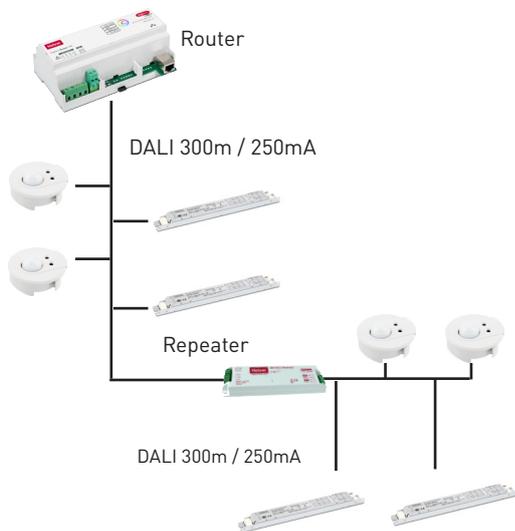


## DALI Repeater

Designed to extend the capabilities of a system, the DALI Repeater doubles the maximum DALI cable length from 300m to 600m and provides an additional 250mA of DALI power.



APPLICATION EXAMPLES  
Office  
Healthcare

2 + 3

TECHNICAL DETAILS

4

## 2 APPLICATION EXAMPLES

Helvar

*freedom in lighting*

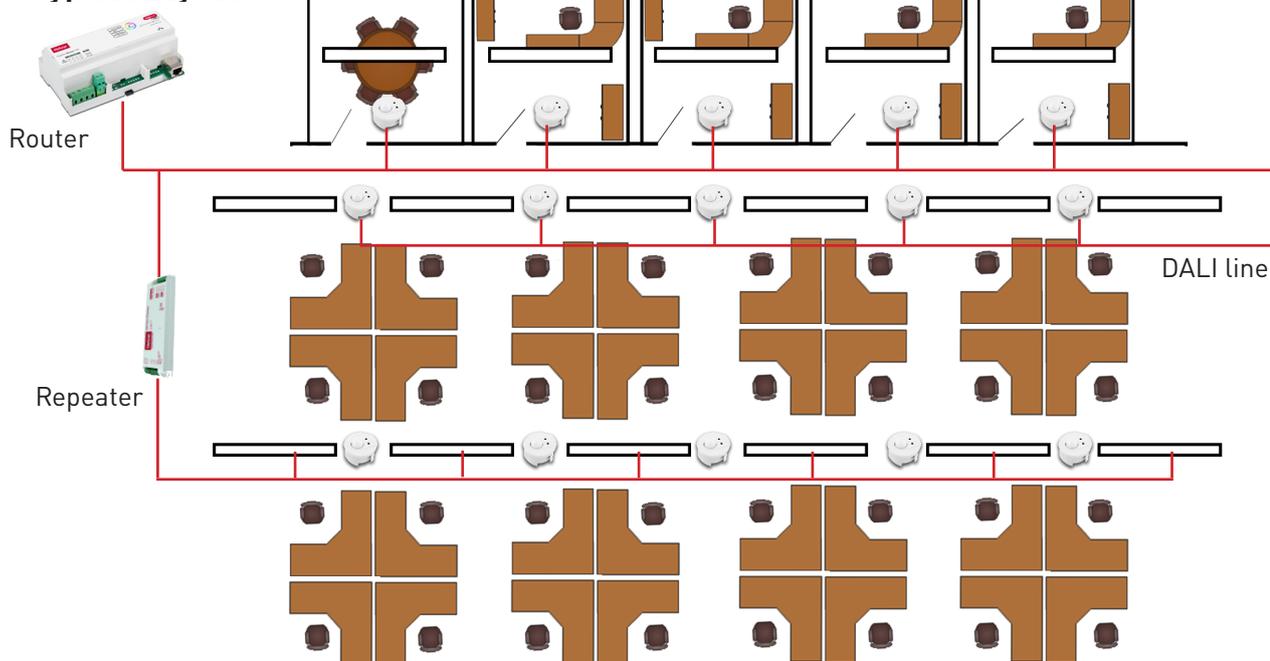
### 1.1 OFFICE (open plan)

A busy office with an open plan environment requires an easy to use, flexible lighting solution that will encourage staff interaction in a comfortable and relaxed atmosphere.

Manual control is required at each entrance point for overall control of the main work areas, which are subsequently zoned and controlled via absence detection and daylight harvesting to achieve the maximum energy savings.

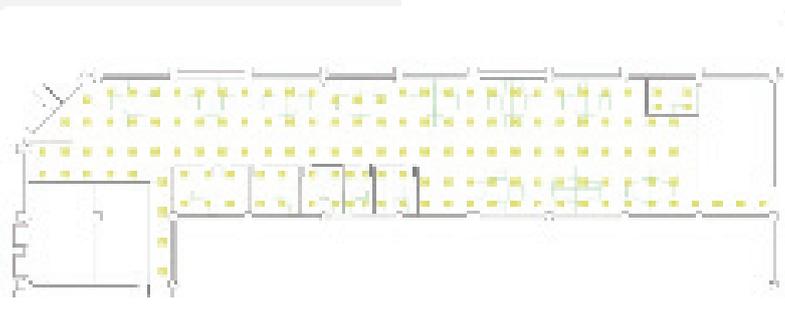
In this application the combination of all DALI devices (e.g. Sensors & LED Drivers) exceeds the 250mA allowed. Using a DALI Repeater a further 250mA can be added to the system, without the need for additional Routers.

#### Typical Layout



*Note: This solution does not provide additional DALI addresses. The DALI limit of 64 addresses still applies.*

- Fully scalable solutions, from a single office to the whole building
- Control of multiple load types
- Integration with Building Management/ Audio Visual Systems
- Energy Monitoring and Maintenance
- Blind Control
- Co-operative with Presence / Absence Detection



## 3 APPLICATION EXAMPLES

**Helvar**

*freedom in lighting*

### HEALTHCARE

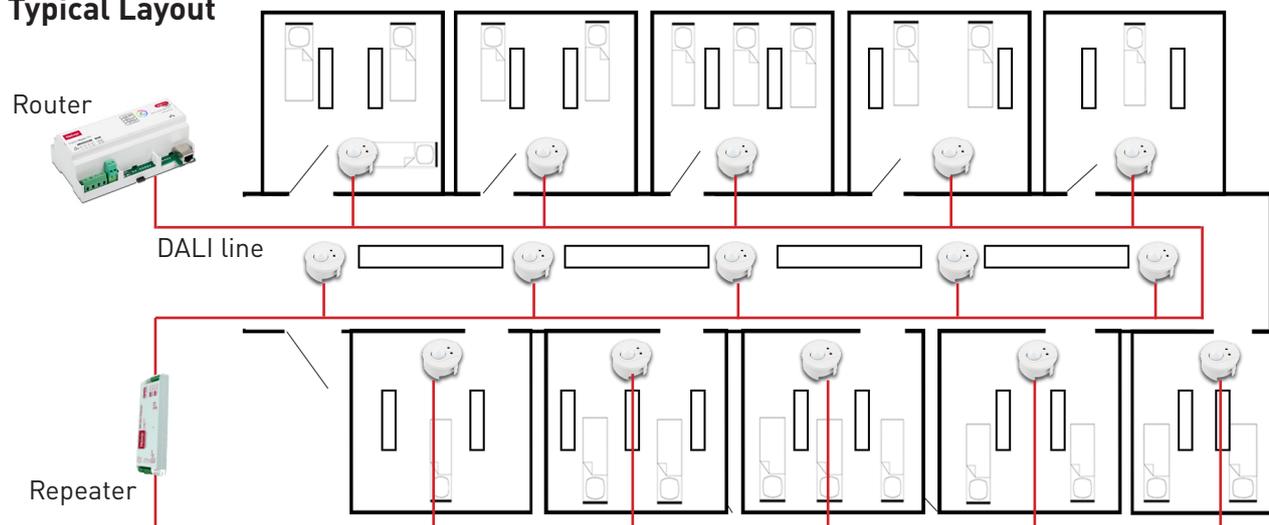
The system is required to provide control to various types of area such as operating theatres, patient rooms, corridors and nurse stations.

The main client concern is the use of the system by various stakeholders and their specific needs:

- Patient: Requires control of their individual environment at any time of day or night to meet their own needs without being an irritation to other room occupants.
- Nurse/Doctor: Needs to temporarily “take control” of the patients environment to carry out routine or critical tasks.

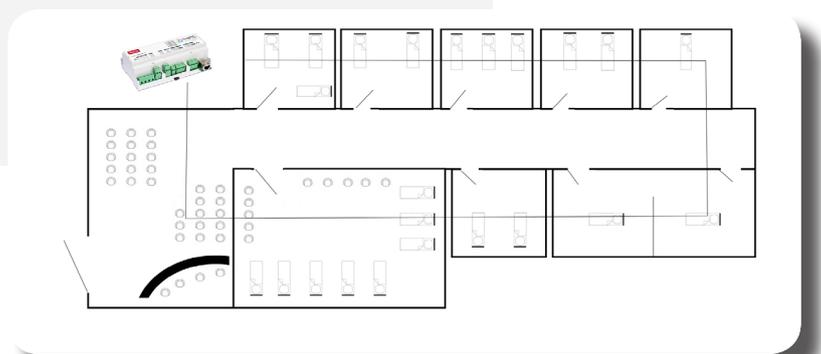
In this application the overall DALI cable length exceeds the 300m allowed. Using a DALI Repeater a further 300m can be added to the system, without the need for additional Routers.

#### Typical Layout



*Note: This solution does not provide additional DALI addresses. The DALI limit of 64 addresses still applies.*

- Fully scalable solutions, from a single bed to the whole building
- Simple control for patient management
- Task lighting for medical personnel
- Automated control for energy saving
- Integration with Building Management Systems
- Energy management and control



## 4 TECHNICAL DETAILS

# Helvar

*freedom in lighting*

### KEY FEATURES

- Extends the maximum DALI cable length from 300m to 600m
- Provides 250mA 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: 85 VAC - 264 VAC, 48 Hz - 62 Hz  
Current consumption: 100 mA  
External protection: 6 A MCB maximum

#### DALI

DALI address: none  
DALI consumption: 2 mA (DALI-in side)  
DALI cable: 0.5 mm<sup>2</sup> - 1.5 mm<sup>2</sup>  
DALI-out current: 250 mA

#### Mechanical data

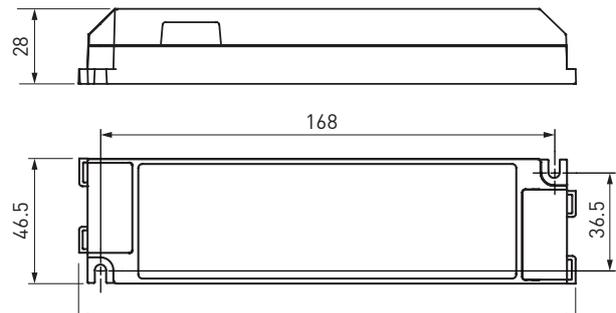
Dimensions: 46.5 mm x 184 mm x 28 mm  
With strain relief:  
46.5 mm x 225 mm x 28 mm

Weight: 150 g

Mounting: Cable clamps with strain relief  
for standalone installation

IP code: IP20

### DIMENSIONS



With strain relief (included)

