freedom in lighting Helvar

Strain Relief Series

- Enables easy independent installation of compatible plastic case compact LED drivers
- Easy installation with screwless cable clamps
- Sturdy structure, compatible with cables of different thickness



Product code: 5593

IEC Halogen free

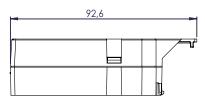


PACKAGE CONTENTS

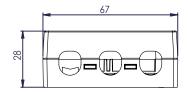
One set of LC-SRA strain relief consists of the following parts:

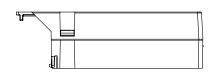
- Cover part
- Bottom part
- Three screwless push-to-fix cable clamps
- One sticker bearing the symbol (for certain Helvar drivers, see page 3)

DIMENSIONS









MATERIALS AND CONDITIONS

Material Specifications

Material type	Polycarbonate

Fire retardant Yes UV protected Yes

White, RAL 9016 Colour

Halogen free according to IEC 61249-2-21

Mechanical, Operating & Storage Conditions

Driver cross-section dimensions	67 x 28-30 mm
Wire size	0.5 - 2.5 mm ²
Ambient temperature range	-25+45 °C*
Storage temperature range	-40+80 °C
Assembly temperature range	+5+30 °C

Do not store in wet or humid environment!

*Unless otherwise stated in the driver datasheet (for independent installation). Note! To max temperature of the driver shall not be exceeded.

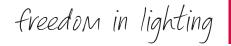
Conformity & Standards

Luminaires - Part 1: General	IEC 60598-1:ed.8 2014
requirements and tests	EN 60598-1:2015
Luminaires. Part 2: Particular	IEC 60598-2-1:1979+A1:1987
requirements. Section One: Fixed	EN 60598-2-1:1989

requirements. Section One: Fixed general purpose luminaires

Compliant with relevant EU directives, CE marked, RoHS/REACH

Application considerations



LC-SRA strain reliefs enable the independent installation of certain Helvar plastic case compact LED drivers. Please always take specific requirements into account before installing and using the strain reliefs.

ASSEMBLY INSTRUCTIONS

Please refer to separate Installation guide, available on product website's Download & Links section, for instructions of how to install the LC-SRA strain reliefs to the driver.

Suitability for different Helvar LED drivers

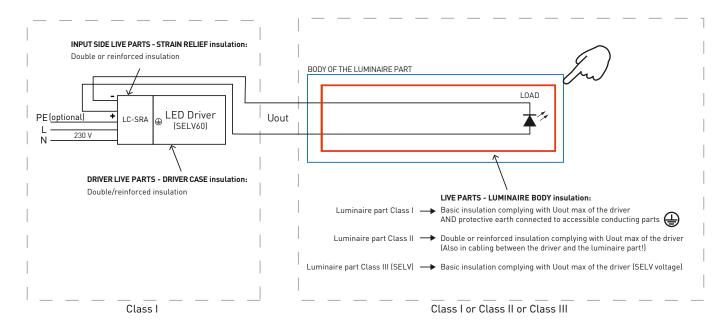
HELVAR SE SERIES COMPACT LED DRIVERS

LED drivers of Helvar SE compact series are Class I devices that have double/reinforced insulation between live electrical parts and accessible parts of the driver. In addition to this, they have protective earth (PE) terminal. Protective earth is not designed as safety measure in SE compact series drivers, but it gives the integrator a possibility to improve the EMC performance of the driver instead. In DALI models the grounding helps in negating the possible glow effect, if present.

When installing Helvar SE compact drivers independently with LC-SRA strain reliefs, PE terminal of the driver can be left unconnected. It may be connected however to improve the EMC performance of the driver.

These drivers have isolated SELV output. The accessible parts of both the cabling and the luminaire part must have then basic isolated according to Uout max of the driver (SELV voltage). The operating conditions of the driver in independent installation may never exceed the specifications as per the product datasheet.

Required insulations illustrated in the figure below. It is always the integrator's responsibility to ensure that the combination of the driver and the luminaire part complies with the relevant standards (e.g. IEC / EN 60598-1).



LIMITATION OF LIABILITY. ALWAYS CHECK AND FOLLOW EXACT REGULATIONS FROM LATEST RELEVANT IEC/EN STANDARDS.

Application considerations



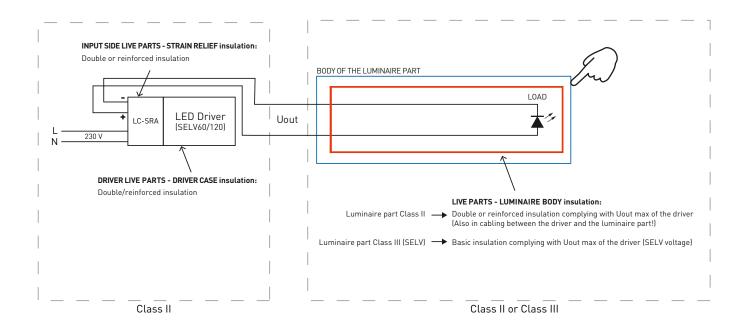
HELVAR LC1X25-35-(E-)CC/DA/AN/ACTIVE+



Helvar LC1x25/28/30/35-(E-)CC/DA/AN/Active+ compact LED drivers are Class II devices that have double or reinforced insulation between live electrical parts and accessible parts of the driver and no earthing terminal.

When installing Helvar LC1x25/30/35-(E-)CC/DA/AN/Active+ Class II drivers independently with LC-SRA strain reliefs, these drivers have isolated SELV output. The accessible parts of both the cabling and the luminaire part must have then basic isolated according to Uout max of the driver (SELV voltage). In addition to this, the operating conditions of the driver in independent installation may never exceed the specifications as per the product datasheet.

Required insulations illustrated in the figure below. It is always the integrator's responsibility to ensure that the combination of the driver and the luminaire part complies with the relevant safety standards (e.g. IEC / EN 60598-1).



Because of the regulations, the Class II drivers designed for built-in usage, marked with symbol (double ring), must be marked with the symbol of [] (double square) when fitted with accessories making it suitable for independent installation. Thus, when installing the LC-SRA strain reliefs to Class II Helvar drivers marked with the symbol \odot , the sticker bearing the symbol \square must be attached to the driver case or strain relief. Do not use the stickers with Helvar SE compact series drivers! Attach the sticker, when using the LC-SRA strain relief with the following drivers: LC1x25-CC LC1x25-DA LC1x28-AN LC1x30-E-CC LC1x30-E-DA LC1x30-E-AN LC1x35-CC LC1x35-DA

LIMITATION OF LIABILITY. ALWAYS CHECK AND FOLLOW EXACT REGULATIONS FROM LATEST RELEVANT IEC/EN STANDARDS.

LC1x35 Active+

LC1x25 Active+

Application considerations





Thermal considerations

The LC-SRA strain reliefs are designed and tested to comply with the luminaire standard EN 60598-1:2015 where applicable. When combining the strain reliefs and drivers for independent installation of the drivers, it is always the responsibility of the integrator to ensure that the combination complies with the relevant standards (e.g. IEC / EN 60598-1).

Thermal design of the luminaire system is important for the safety, reliability and lifetime of the system. Datasheets give quidelines what range of ambient temperature is recommended for the driver in built-in and in independent usage, but in both environments it it always the responsibility of the integrator to ensure that the Tc point temperature does not exceed the Tc max temperature specified in the product datasheet.

Installation, mechanical and chemical considerations

- Do not assemble the LC-SRA strain reliefs into place in cold environments (<5 °C)
- When installing the strain reliefs, refer to the separate installation guide
- The protection class of the final installation must be adequate for the application
- While handling the strain reliefs avoid excess mechanical stress or pressure applied to them
- Avoid dropping of the strain reliefs
- Mechanical modifications (drilling, milling, sawing or cutting of the strain reliefs) are not permitted

Chemical substances may cause damage to the LC-SRA strain reliefs. Avoid materials and substances containing:

- Acetone, ketones, ethers, and aromatic and chlorinated hydrocarbons
- Aqueous or alcoholic alkaline solutions, ammonia gas and its solutions and amines Do not expose LC-SRA strain reliefs to steamy environments.

