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CEL | Isolators | Helix Cut Outs





INTRODUCTION

CEL offers a comprehensive range of LSI Lockable Safety Isolators and Helix Cut Outs all supported by a choice of extension boxes, gland plates, CETs, cable glands and fuses, providing maximum versatility. Their inherent reliability and build quality ensures performance in the hostile environments of street lighting, hence their extensive use in 25 year PFI contracts. All manufactured under ISO 9001 quality control system.



Extension Boxes and Terminals

Extension Boxes are available to fit onto isolators and cut outs to provide versatility, ease of termination and quick installation. They have been designed for strength with moulded DIN rails, with the X2 and X3 incorporating strengthened terminal clamps for cable up to 25mm² (35mm² circular), providing capability for 3 phase options.

Manufactured from brass, standard DIN rail-mounted live, neutral and earth terminals are fully insulated. Stud terminals are also available.



Extension Boxes

X0 spreader box to fit under L3 and HLX 200 to accept larger X boxes.

XOA to fit HLX50



X4 fits L3 and HLX200



X1 fits onto X0, L4 and will accept larger X boxes



X5 fits on bottom of X3 to facilitate larger cables



X2 fits onto XO, L4 and will accept larger X boxes. Available with stud terminals = X7



X6 fits onto L2



X3 fits onto X0, L4 and will accept larger X boxes.

Available with stud terminals = X8

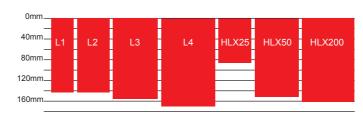


X9 fits onto HLX200 to accept X3 or X9

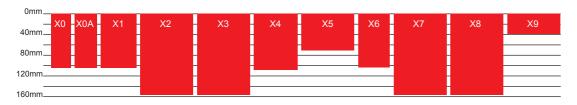


Dimensions of Enclosures and Extension Boxes

Graphs indicate proportionate sizes



mm	L1	L2	L3	L4	HLX25	HLX50	HLX200
Н	142	142	154	168	85	150	160
W	39	57	79	95	58	77	92
D	82	82	82	90	62	62	63



mm	XO	XOA	X1	X2	X3	X4	X5	X6	X7	X8	X9
Н	36	40	65	144	144	100	65	95	144	144	36
W	96	96	96	96	96	79	96	57	96	96	96
D	69	69	69	69	99	57	99	57	69	99	99

The Isolator Range

This range offers really positive double pole switched isolation with a lockable cover for added security and safety. The isolators can be fitted with fuse carriers, MCBs or controls for Festive Lighting and feature the innovative Charles Endirect sliding interlock. This safety feature means that the fuse can only be withdrawn when the switch is in the 'off' position. The range consists of four different sized models from 1 to 4 widths, ie. L1, L2, L3 and L4.

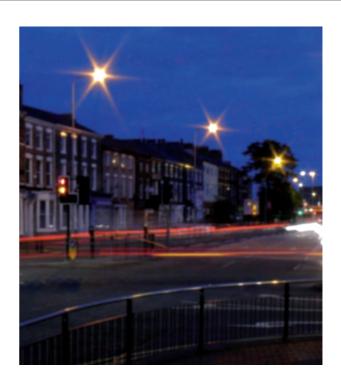
The advantages for you

Manufactured for Quality:

- ✓ Designed to meet the requirements of BS7671
- ✓ Full compliance with current HSE, IEE and ILP standards
- ✓ Fitted with KEMA approved CEL DP switch and BS88 fuse carrier/s
- ✓ Features CEL unique safety interlock

Ease of Installation:

- ✓ Unique slimline single module L1
- ✓ L2, L3 and L4 modular options
- ✓ Optional pre-wired with D/I tails and bespoke units available
- ✓ Ready-fitted captive s/s screws for speed and ease of installation
- ✓ PVC or brass gland plate options











Above products all shown in proportional sizes



Switch Disconnector and Fuse Carrier

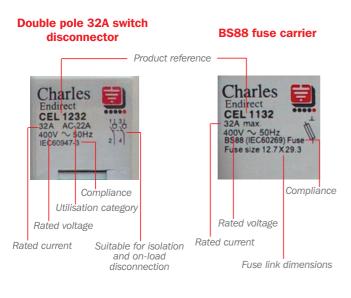
CEL manufacture their switch disconnector and fuse carrier to the highest specification. Notably, the switch has been certified at a utilisation category of AC22A and, as such, is capable of switching a high inductive load.

These products have been independently tested and carry the KEMA* approval and comply with the latest International Standards.

The advantages for you

Manufactured for Quality:

- ✓ Certified at a utilisation category of AC22A
- ✓ KEMA* approved





L3/S2F



Specialist Isolators

CELsense™

The CELsense™ unit provides an energy saving solution that switches off the centre island bollard during the daytime hours with no additional photocells. Fitted to a standard L4 enclosure it can replace the column isolator, providing two circuits - lantern and sub-circuit. Simple to install, this unit offers carbon footprint reduction.

UMSUG coded - 94 0001 0002 100 Dimensions (mm): 168H x 95W x 90D



Energy saving

CELprotect™

A surge protection device fitted within a three module enclosure (L3). The unit can take a maximum surge of 10KA or nominal surges of 3KA. CELprotect™ can take multiple low value surges before degradation occurs.

The device is pluggable in order that it can be replaced after

degradation. An indicator shows the status of the unit. Pre-wired with D/I & Earth tails for ease and speed of installation.



Protect your valuable electronic and LED devices

The Helix Cut Out Range

This range has been designed for strength, durability, ease of installation and to meet the full requirements of BS 7654. The range features a secure and quick release carrier to provide safe and easy access to fuses and outgoing terminals

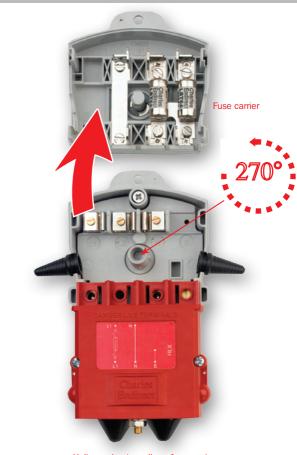
The advantages for you

Manufactured for Quality:

✓ Unique high quality design meets the requirements of BS7654

Ease of Installation:

- ✓ Innovative, simple action, quick release fuse carrier
- √ Three sizes miniature HLX25, standard HLX50 and universal HLX200
- ✓ Double pole, 1 or 2 fuses, with 3 phase option
- ✓ Ready-fitted captive s/s screws for speed and ease of installation
- ✓ Full range of extension boxes with purpose designed terminals to allow multiple wiring options
- ✓ Accepts fuses to IEC269-1 and BS88 part 1. AC19 Tag Type (LST)



Helix mechanism allows fuse carrier to be quickly secured and released by a 270° turn



Helix 200



For further information please contact our Customer Services Team



Helix 25 with a XI extension box

Festive Lighting Applications

The CEL range of enclosures and extension boxes is ideal for the control and protection of Festive Lighting and allied applications. Designs can incorporate switches, fuses, RCCBs, RCBOs, MCBs, time clocks and contactors.

The advantages for you

Manufactured for Quality:

- ✓ Expert design assistance
- ✓ Full compliance with current HSE, IEE, ILP standard and BS7671
- ✓ Enclosures and components manufactured to ISO 9001: 2008

Ease of Installation:

- ✓ Extremely compact
- ✓ Completely adaptable to your needs
- ✓ Can combine festive lighting, floodlighting and street lighting in one unit
- ✓ Suitable for private cable networks or REC supply
- ✓ Can remove the need for separate feeder pillar

Whilst other variations are available, e.g. astro time switch, the following is our standard range available from stock:

REF	DESCRIPTION	DIMENSIONS (mm)
L3/Festive 1	3 module enclosure with 6A RCBO protection to festive lighting circuit controlled by time switch. For incoming REC supply.	154H x 79W x 82D
L4/Festive 1	2 x 4 module enclosure with 16A RCBO protection to festive lighting circuit switched through a contactor controlled by time switch with fuse carrier for protection to the lantern. Double pole isolation on both circuits. For incoming REC supply.	336H x 95W x 90D
L4/Festive 2	2 x 4 module enclosure with 16A RCBO protection to festive lighting circuit switched through a contactor controlled by time switch with two fuse carriers for protection to the lanterns. Double pole isolation to all circuits. For incoming REC supply.	336H x 95W x 90D
L4/Festive 3	2 x 4 module enclosure with 16A RCBO protection to festive lighting circuit switched through a contactor controlled by time switch with three fuse carriers for protection to the lanterns and sign. Double pole isolation to all circuits. Will accept up to 6mm 3C SWA cable, with 6mm spur.	336H x 95W x 90D

Maximum festive lighting load: 7 amps inductive



Cinile

L4/Festive 1



CEL can offer a column-mounted IP67 plug and socket to accompany the festive unit.



PRE-WIRED CONTROL BOXES

These are available for many common festive lighting applications, providing isolation and RCBO circuit protection for street lighting with time switch control for festive lighting via an exterior socket.



Charles Endirect Ltd is a market leader in the street lighting industry. The company's innovative product range includes:

ISOLATORS & CUT-OUTS

LSI Range

Festive Lighting

Helix Range

Extension Boxes & Gland Plates

FEEDER & DISTRIBUTION PILLARS

Mini Pillars

Midi Pillars

Maxi Pillars

Stainless Steel Pillars

Specialised Architectural Pillars

Pre-wired Distributior

BELISHA EQUIPMENT

Gallery

Light Sources

Globes

Accessories

ENERGY SAVING

Power Switches

Gear Trays

Flectronic Ballasts

Control Gea

Energy Management System

LEDs

EARTHING

Cable Glands

CFTs

Accessories

MISCELLANEOUS

Passive Safety

Fuses

Surge Protection

Emergency Doors

Strimme









Charles Endirect Ltd operates a policy of continuous product development and improvement. The facts and information offered in this document are correct at the time of going to press.