

Photocell CELxcel LOW power

CEX2000 range

Overview

CELxcel Low power range of photocells are designed and manufactured by Charles Endirect Ltd and come with a **12 Year Warranty**,

Using high quality components and materials, and in-house design and manufacturing expertise, the CEX2000 low power photocell range with its' **power supply consumption of <0.09 Watts**, is part of a family of photocells aimed to give solutions to suit different customer needs. Housings are available in two, robust, low-profile designs, NEMA and Conduit, an alternative to the traditional "mini cell" design.



Colour band, different options available

CELxcel Low power NEMA photocell

The NEMA photocell comes in a high impact UV resistant acrylic housing with ABS (*Acrylonitrile Butadiene Styrene*) base which gives a long service life and is designed to IP68 giving excellent protection against the elements. Siting the photocell externally protects it from the heat of the luminaire thus guarding against potential damage to the internal components. It also offers more protection against the elements by covering the top of the connection and protecting it. The NEMA photocell is simple to install with its push, twist and lock design which provides a reliable power connection and seal. The quick method of installation allows for easy changes and upgrades to be made at a later date if required.



NEMA fitting

CELxcel Low power CONDUIT photocell

Charles Endirect have developed a 20mm conduit housing as an innovative solution for use where mounting via a 20mm hole is desired. The conduit housing has been inspired by changing luminaire design, the need for longer service life and for ease of maintenance whilst retaining the ingress protection integrity of the luminaires.

This new alternative to the traditional "mini cell" is a pioneering design. By siting the photocell externally, as opposed to a "mini cell" which sits internally, it protects it from the heat of the luminaire, and as with the NEMA, it also offers more protection against the elements by covering the top of the connection.



20mm conduit fitting

CELxcel Low power Photocell features:

- ✓ NEMA and Conduit options
- ✓ Housing material is high impact UV resistance Acrylic with ABS base
- ✓ Enclosure protection designed to IP68
- ✓ Power supply consumption <0.09 Watts
- ✓ Switching options of dusk to dawn and part night
- ✓ Colour band for identification
- ✓ 12-year standard warranty

Charles Endirect Control Products



| Technical Information | NEMA | Conduit |
|---|---|--|
| Electrical | | |
| Rated operational voltage (Ue) | 195V - 265V ac | 195V - 265V ac |
| Rated frequency (f) | 50 / 60 Hz | 50 / 60 Hz |
| Rated power consumption | < 0.09 watts | < 0.09 watts |
| UMSUG Code | 94 0000 0002 100 | 94 0000 0002 100 |
| Rated switching load current | 7A | 7A |
| Rated switching load watts | 400 watts or 2 x 50 watts (230V ac 50Hz, pf = 0.85) | 400 watts or 2 x 50 watts (230V ac 50Hz, pf = 0.85) |
| Surge protection | 120 joules | 120 joules |
| Rated insulation voltage (Ui) | 500V ac | 500V ac |
| Mechanical | | |
| Housing | High impact UV resistant Acrylic with AMS base | High impact UV resistant Acrylic with AMS base |
| Connection | NEMA socket | Conduit 20mm hole |
| Ingress protection | IP68 | IP68 |
| Impact | IK04 | IK04 |
| Dimensions | D 82mm x H 45mm | D 82mm x H 45mm |
| Weight | NEMA 97g | Conduit 120g |
| Normal Service Conditions | | |
| Ambient air temperature for operation | -20°C to +70°C (-4°F to +158°F) | -20°C to +70°C (-4°F to +158°F) |
| Altitude | < 2000m | < 2000m |
| Humidity | 95 % @ 55°C | 95 % @ 55°C |
| Pollution degree | 3 | 3 |
| Pre-wired (conduit version only): | | |
| Brown (Live 230V ac) | n/a | BS6231, 0.75mm ² , 500mm long |
| Blue (Neutral 230V ac) | n/a | BS6231, 0.75mm ² , 500mm long |
| Red (Switch Load 230V ac) | n/a | BS6231, 0.75mm ² , 500mm long |
| Product Standards | | |
| BS 5972 | Yes | Yes |
| EN 61347-1 | Yes | Yes |
| EN 61347-2-11 | Yes | Yes |
| BS EN IEC 55015:2019+A11:2020 | Yes | Yes |
| BS EN 61000-3-2:2014 | Yes | Yes |
| BS EN 61000-3-3:2013+A2:2021 | Yes | Yes |
| BS EN 61547:2009 | Yes | Yes |
| IEC 60529-2013 | Yes | Yes |
| UK Regulations | | |
| Electrical Equipment (Safety) Regulations 2016 No. 1011 | Yes | Yes |
| Electromagnetic Compatibility Regulations 2016 No. 1091 | Yes | Yes |
| The Restriction of the Use of Certain Hazardous Substances - in Electrical & Electronic Equipment Regulations 2012 No. 3032 | Yes | Yes |
| EU Directives | | |
| LVD 2014/35/EU | Yes | Yes |
| EMC 2014/30/EU | Yes | Yes |
| RoHS 2011/65/EU | Yes | Yes |
| Related Documents: | UK Declaration of Conformity EU Declaration of Conformity | UK Declaration of Conformity EU Declaration of Conformity |
| Stock Codes & Descriptions: | CEX2000 (CELxcelLP/20/1:1/N - 20Lux 1:1 switching ratio, NEMA mounting) CEX2010 (CELxcelLP/20/1:1/N/PN1- 20Lux 1:1 switching ratio, NEMA mounting 00.00 - 06.00) CEX2040 (CELxcelLP/35/1:0.5/N - 35Lux 1:0.5 switching ratio, Nema mounting) CEX2050 (CELxcelLP/35/1:0.5/N/PN1 - 35Lux 1:0.5 switching ratio, Nema mounting, 00.00 - 06.00) CEX2080 (CELxcelLP/70/1:0.5/N - 70Lux 1:0.5 switching ratio, Nema mounting) CEX2090 (CELxcelLP/70/1:0.5/N/PN1 - 70Lux 1:0.5 switching ratio, Nema mounting, 00.00 - 06.00) | CEX2020 (CELxcelLP/20/1:1/C- 20Lux 1:1 switching ratio for 20mm conduit) CEX2030 (CELxcelLP/20/1:1/C/PN1- 20Lux 1:1 switching ratio, 20mm conduit, 00.00 - 06.00) CEX2060 (CELxcelLP/35/1:0.5/C - 35Lux 1:0.5 switching ratio, 20mm conduit mounting) CEX2070 (CELxcelLP/35/1:0.5/C/PN1 - 35Lux 1:0.5 switching ratio, 20mm conduit mounting, 00.00 - 06.00) CEX2100 (CELxcelLP/70/1:0.5/C - 70Lux 1:0.5 switching ratio, 20mm conduit mounting) CEX2110 (CELxcelLP/70/1:0.5/C/PN1 - 70Lux 1:0.5 switching ratio, 20mm conduit mounting, 00.00 - 06.00) |