

## CELxcel STANDARD power

### CEX1000 photocell range

**CELxcel Standard** photocells are designed and manufactured by Charles Endirect Ltd and come with an **8 Year Warranty**.

Using high quality components and materials, and in-house design and manufacturing expertise, the CEX1000 standard photocell range 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”.

#### CELxcel Standard 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.

#### CELxcel Standard 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.

#### CELxcel Standard 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  $\leq 0.46$  Watts
- ✓ Switching options of dusk to dawn and part night
- ✓ Colour band for identification
- ✓ 8-year standard warranty



Colour band, different options available



NEMA fitting



20mm conduit fitting

## Charles Endirect **Control** Products

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Wessex Way, Wincanton Business Park, Wincanton, Somerset BA9 9RR Registration No. 1855059, England Ref 1001 V4.1

Technical specifications	NEMA	Conduit
<b>Electrical:</b>		
Rated operational voltage (Ue)	195V - 265V ac	195V - 265V ac
Rated frequency (f)	50 / 60 Hz	50 / 60 Hz
Rated power consumption	≤ 0.46 watts	≤ 0.46 watts
UMSUG Code	94 0000 0003 100	94 0000 0003 100
Rated switching load current	7A	7A
Rated switching load watts	2 x 250 or 1 x 400 watts	2 x 250 or 1 x 400 watts
Surge protection	120 joules	120 joules
Rated insulation voltage (Ui)	500V ac	500V ac
<b>Mechanical:</b>		
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	Designed to IP68	Designed to IP68
Impact	IK04	IK04
Dimensions	D 82mm x H 45mm	D 82mm x H 45mm
Weight	NEMA 97g	Conduit 120g
<b>Normal Service Conditions:</b>		
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
<b>Pre-wired (conduit version only):</b>		
Brown (Live 230V ac)	n/a	BS6231, 0.75mm <sup>2</sup> , 500mm long
Blue (Neutral 230V ac)	n/a	BS6231, 0.75mm <sup>2</sup> , 500mm long
Red (Switch Load 230V ac)	n/a	BS6231, 0.75mm <sup>2</sup> , 500mm long
<b>UK Regulations:</b>		
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
<b>Directives:</b>		
LVD 2014/35/EU	Yes	Yes
EMC 2014/30/EU	Yes	Yes
RoHS 2011/65/EU	Yes	Yes
<b>Standards:</b>		
BS 5972	Yes	Yes
<b>Related Documents:</b>		
Declaration of Conformity	Yes	Yes
Stock Codes & Variants:	CEX1000 CELxcel20/1:1/N - 20Lux 1:1 switching ratio, NEMA mounting CEX1010 CELxcel20/1:1/N/PN1 - 20Lux 1:1 switching ratio, NEMA mounting, 00.00-06.00 CEX1040 CELxcel35/1:0.5/N - 35Lux 1:0.5 switching ratio, NEMA mounting CEX1050 CELxcel35/1:0.5/N/PN1 - 35Lux 1:0.5 switching ratio, NEMA mounting 00.00 - 06.00 CEX1072 CELxcel55/1:0.5/N - 55Lux 1:0.5 switching ratio, NEMA mounting CEX1080 CELxcel70/1:0.5/N - 70Lux 1:0.5 switching ratio, NEMA mounting	CEX1020 CELxcel20/1:1/C - 20Lux 1:1 switching ratio, Conduit 20mm mounting CEX1030 CELxcel20/1:1/C/PN1 - 20Lux 1:1 switching ratio, Conduit 20mm mounting 00.00 - 06.00 CEX1060 CELxcel35/1:0.5/C - 35Lux 1:0.5 switching ratio, conduit 20mm mounting CEX1070 CELxcel35/1:0.5/C/PN1 - 35Lux 1:0.5 switching ratio, conduit 20mm mounting 00.00 - 06.00 CEX1090 CELxcel70/1:0.5/N/PN1 - 70Lux 1:0.5 switching ratio, NEMA mounting 00.00 - 06.00 CEX1100 CELxcel70/1:0.5/C - 70Lux 1:0.5 switching ratio, conduit 20mm mounting CEX1110 CELxcel70/1:0.5/C/PN1 - 70Lux 1:0.5 switching ratio, conduit 20mm mounting 00.00 - 06.00 CEX1172 CELxcel55/1:0.5/C - 55Lux 1:0.5 switching ratio 20mm conduit mounting

