

Photocell Unit for use with LHC & CSW Controllers

CEL-PCE-DCW-F - 10-60VDC Operating Voltage

Description

CEL-PCE-DCW-F is an external photocell unit designed to replace the CSW's built-in photocell externally. The information collected by the CEL-PCE-DCW-F can be accessed via an RS-485 data interface using application-specific protocol. Additionally, this unit can be used with any device or system supporting the interface. When using this PCE photocell, the CSW set-up uses the same internal photocell dip switch settings.

Key features

- Extremely reliable
- Suitable for off-shore use
- Very low power consumption
- Wide 10-60VDC input voltage
- Optimised for LED Obstacle lights
- Lightweight and small - low wind load factor
- No RF-Radiations
- Overvoltage protection

Benefits

- Long maintenance intervals
- Low energy cost
- Supply power voltage variations do not affect functionality
- Very low total lifetime costs
- Low wind load

Electrical Characteristics

- Input voltage range 10-60VDC
- Power consumption <1W
- Over voltage protection

Photocell Characteristics

- User selectable photocell sensitivity (bold = factory default) OFF/100lux / 200lux / 400lux - sensitivity selection is made in CSW

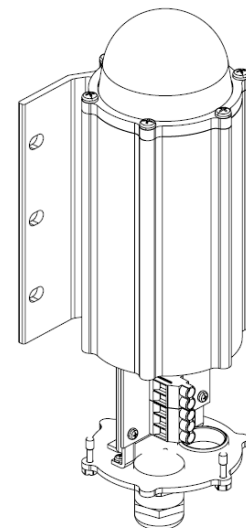
Mechanical Characteristics

- Anodised marine grade aluminium body and end parts
- AISI 316 acid proof steel screws
- Colourless (clear) glass cover
- Terminal box for max. 2,5mm² wires
- Recommended cable: 5 x 0.75mm² or 5 x 1.5mm²
- CAT-5 Data Cable recommended to long distances (> 30m)
- Degree of protection IP 65
- Operating temperature range -55°C to +55°C
- Height 210mm, diameter 104mm, weight 1.1kg
- Wind load with CEL-MS-EV60 mounting kit @ 200km/h less than 40N

Order Code: CEL-PCE-DCW-F



CEL-PCFL-DC1-



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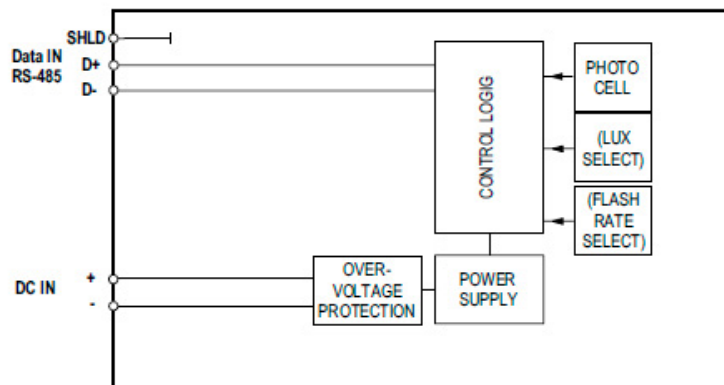


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Block Diagram



Interface Description

Installation Specifications

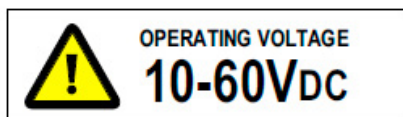
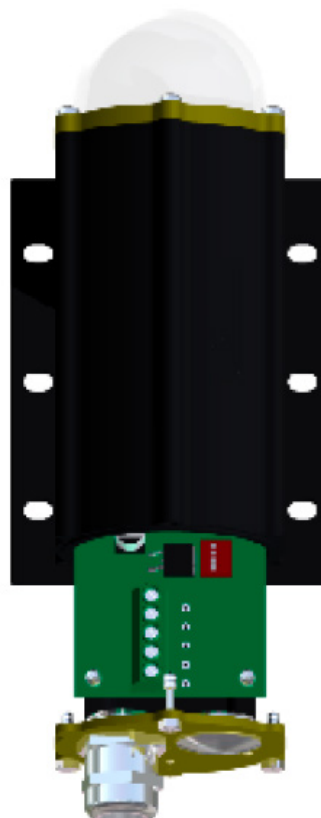
- Cable Gland: M25
- Cable diameter: 11-17mm
- Recommended cable: 5x0.75mm or 5 x 1.5mm

Options

-CGS-20 - Smaller Cable Glands

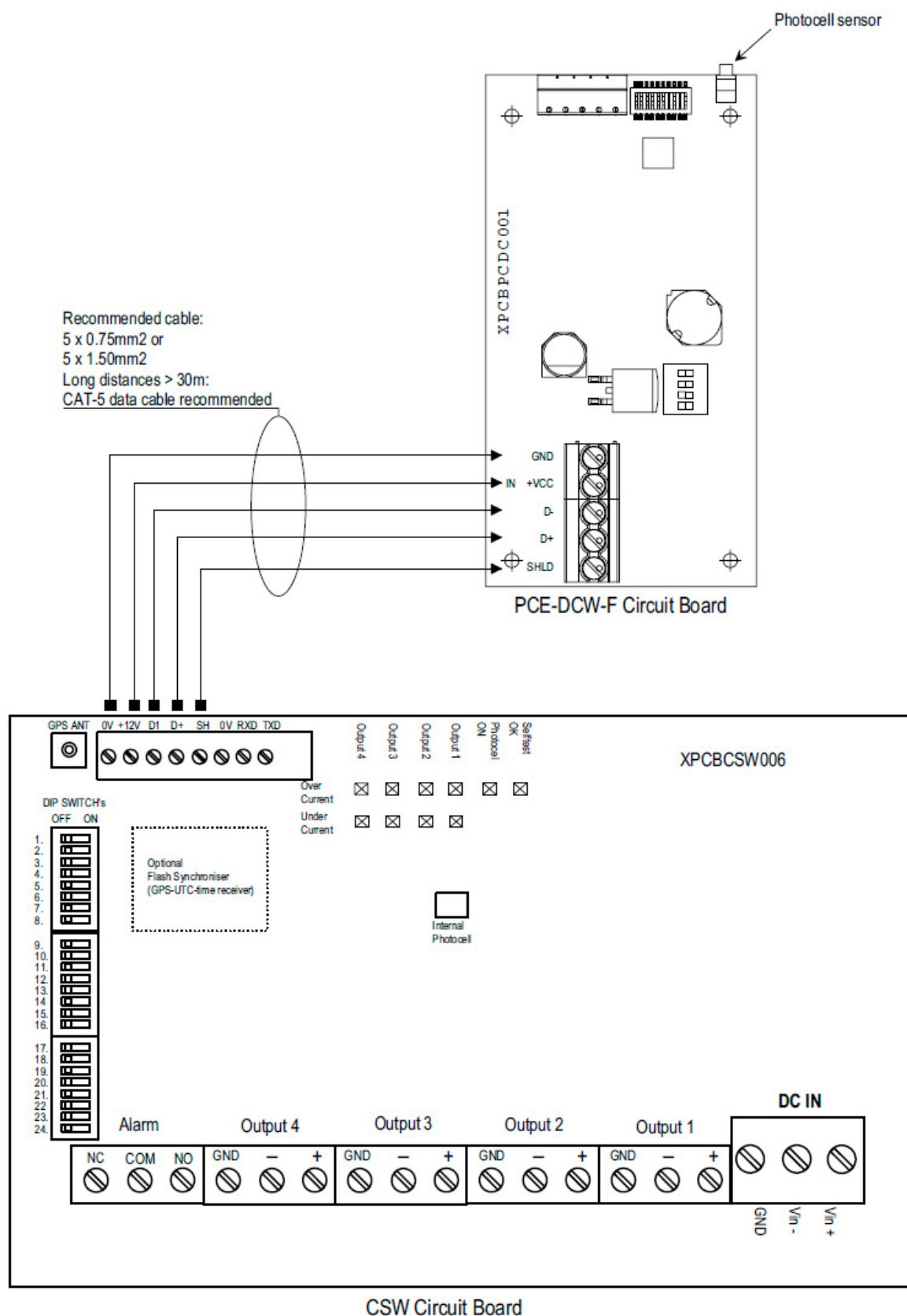
Set include one M20 cable gland with
M25 - M20 adapter for 7-13mm cables

- | | | |
|--------------|--------|-------|
| 1. Ground | (GND) | _____ |
| 2. +10-60VDC | (+VCC) | _____ |
| 3. Data- | (D-) | _____ |
| 4. Data+ | (D+) | _____ |
| 5. Shield | (SHLD) | _____ |



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CONNECTING CEL-PCE-DCW-F WITH CSW

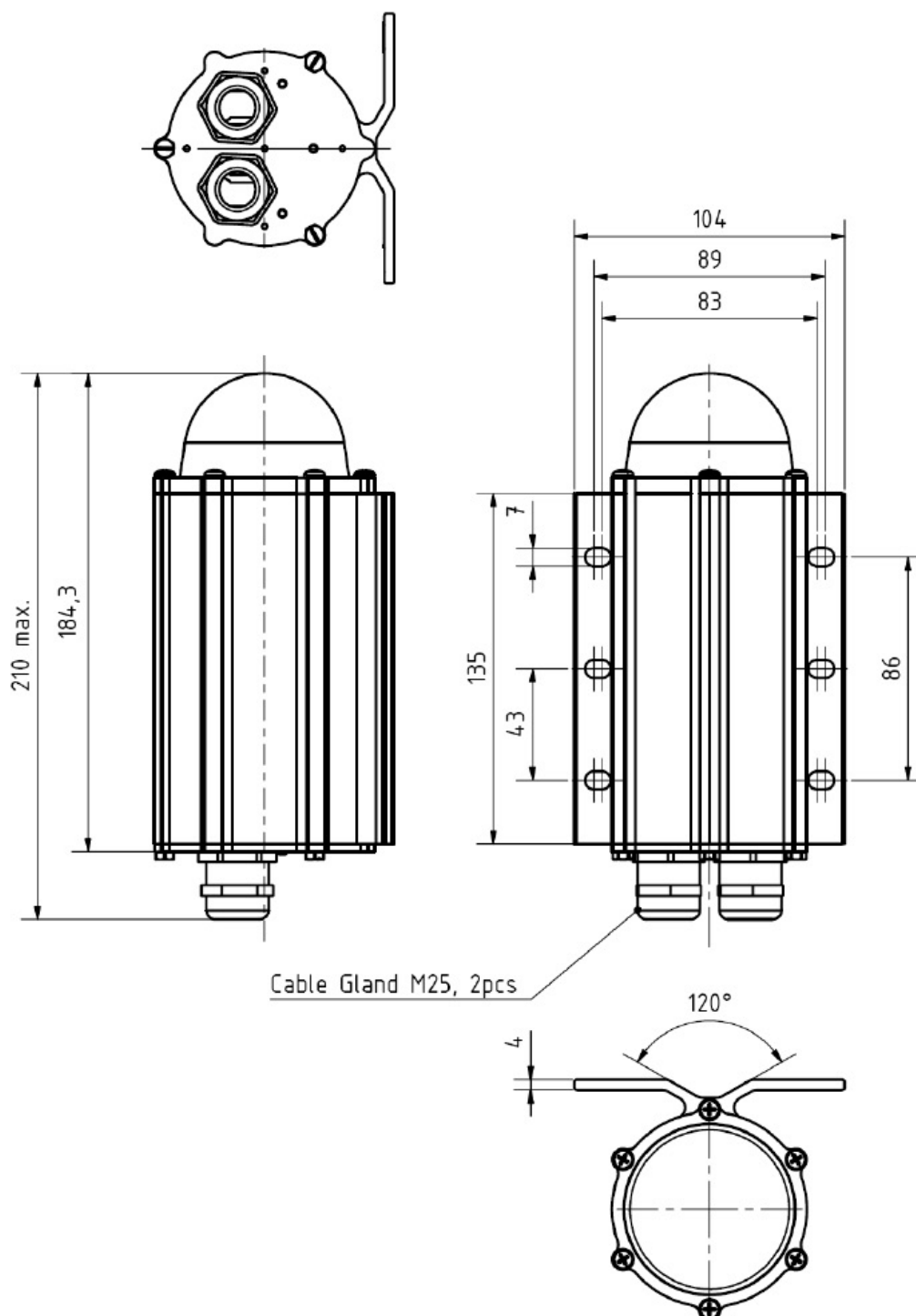


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MECHANICAL DIMENSIONS



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MOUNTING KITS AVAILABLE (OPTIONAL)

CEL-MS-HV80

Mounting set for 33-80 mm vertical or horizontal pipe

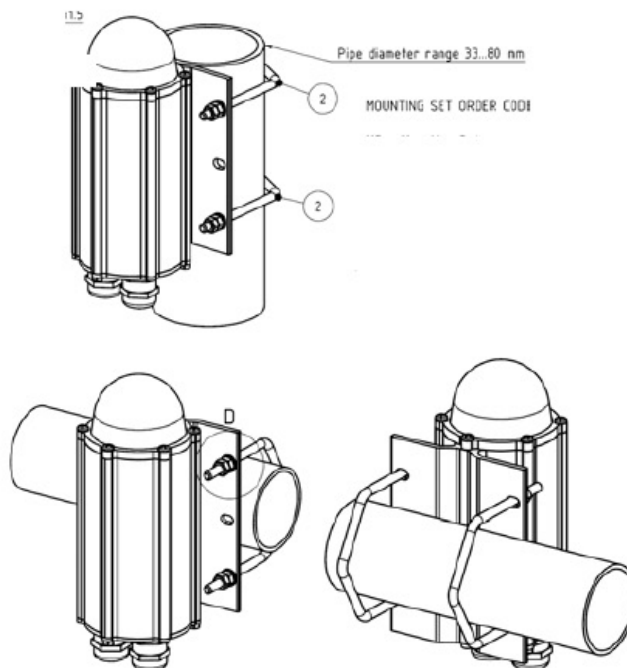
Mounting set include:

- 2 pcs M6 U-bolt
- 8 pcs M6 hex nut
- 4 pcs 6/12 mm washer

All parts AISI 316 acid proof steel

More detailed mechanical data: CEL-MS-HV80 datasheet

Order Code: **CEL-MS-HV80**



CEL-MS-EV60

Mounting set with extension plate for 30-60 mm vertical pipe installation

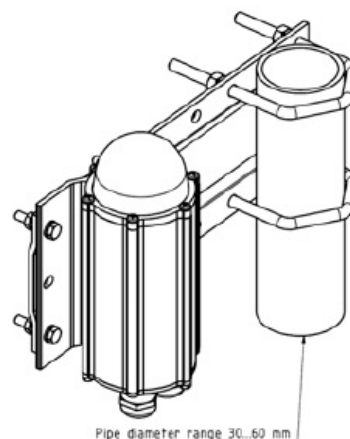
Mounting set include:

- 2 pcs M8 U-bolt, 8 pcs M8 hex nut
- 4 pcs M6x30 bolt, 8 pcs M6 hex nut, 4 pcs 6/12 washer
- 1 pcs extension plate

Extension plate marine grade anodised aluminium, other parts AISI 316 acid proof steel

More detailed mechanical data: CEL-MS-EV60 datasheet

Order Code: **CEL-MS-EV60**



CEL-MS-EV100:

Mounting set with extension plate for 60-100 mm vertical pipe installation

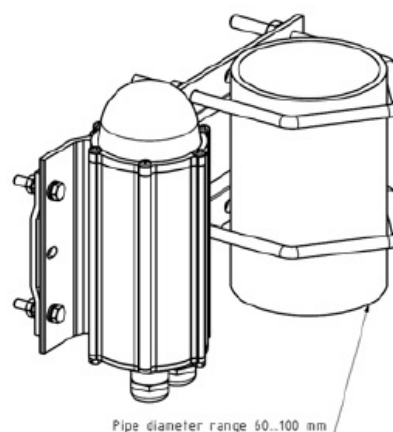
Mounting set include:

- 2 pcs M8 U-bolt, 8 pcs M8 hex nut
- 4 pcs M6x30 bolt, 8 pcs M6 hex nut, 4 pcs 6/12 washer
- 1 pcs extension plate

Extension plate marine grade anodised aluminium, other parts AISI 316 acid proof steel

More detailed mechanical data: CEL-MS-EV100 datasheet

Order Code: **CEL-MS-EV100**



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CEL-MS-RW

Mounting set for horizontal plate or wall installation

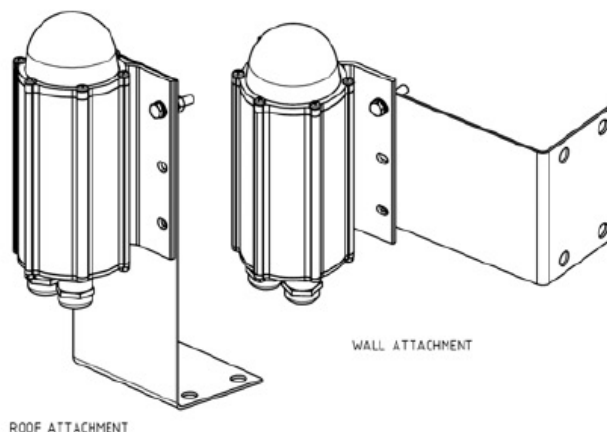
Mounting set include:

- 4 pcs M6x30 bolt, 8 pcs M6 hex nut, 4 pcs 6/12 washer
- 1 pcs L-shape 2 mm plate

All parts AISI 316 acid proof steel

More detailed mechanical data: CEL-MS-RW datasheet

Order Code: **CEL-MS-RW**



CEL-MS-LVU

Mounting set for L and V -shape profiles

Mounting set include

- 1 set accessories for light unit fitting to plate
- 1 pcs extension plate with adjusting plate and accessories

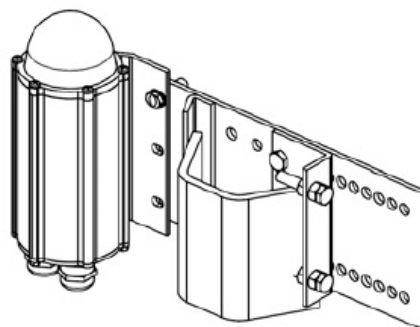
Extension plate hot dip galvanised steel, other parts

AISI 316 acid proof steel

More detailed mechanical data: CEL-MS-LVU datasheet

Order Code: **CEL-MS-LVU** (with galvanised extension plate)

CEL-MS-LVA (with AISI 316 extension plate)

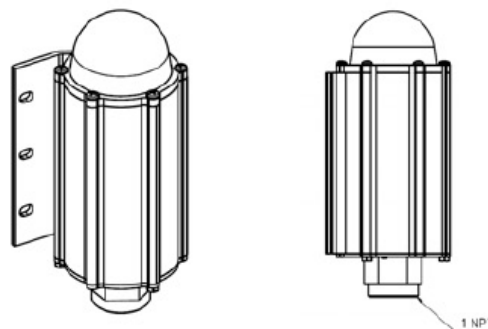


CEL-MS-N1B

Mounting set for 1" NPT at bottom

More detailed mechanical dimensions: CEL-MS-N1B dataheet

Order Code: **CEL-MS-N1B**



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CEL-MS-EV150:

Mounting set with extension plate
for 100-150 mm vertical pipe installation

Mounting set include:

- 2 pcs M8 U-bolt, 8 pcs M8 hex nut
- 4 pcs M6x30 bolt, 8 pcs M6 hex nut, 4 pcs 6/12 washer
- 1 pcs extension plate

Extension plate hot dipped galvanised steel,
other parts AISI 316 acid proof steel
More detailed mechanical data: CEL-MS-EV150 datasheet

Order Code: **CEL-MS-EV150**

