

SIDEiS



**SIDEiS ONE**

## Product Features

- Innovative, ultra compact, lightweight outdoor LED street lighting module designed for roadways, tunnels, pedestrian areas and architectural applications.
- Available in 13W & 16W.
- Lumen output up to 1639 lm with 5 special lighting distribution options.
- Available in CC & CV versions. 100,000hrs L90 lifetime reduces maintenance cost.
- IP66, IK09.
- CB, RoHS available.



## Product Benefits

- Road lighting LED module concept designed to reduce the overall cost considering the enhanced road lighting efficiency, infrastructure costs, energy saving and maintenance costs.
- Excellent lighting distribution on the street. Thanks to the special optical system and the black PCB that decreases the random reflection of photons inside the device.
- Improving road efficiency and visibility in presence of fog due to low height application that minimizes the reflected & scattered light.
- Better control over light distribution in curved streets and roundabouts.

### SIDEiS Ordering Information

Example

| S3    | T0                 | 7      | 40       | G       | 13          | F                     | 1            | D        |
|-------|--------------------|--------|----------|---------|-------------|-----------------------|--------------|----------|
| MODEL | PHOTOMETRY         | CRI    | CCT      | COLOUR  | POWER       | CONTROL MODE          | CABLE LENGTH | MOUNTING |
| S3    | T0 Transversal     | 7 (70) | 30 3000K | G grey  | 13W (350mA) | F constant voltage *  | 1 (1,5m)     | D        |
|       | FC Forward-Central | 8 (80) | 40 4000K | B black | 16W (450mA) | E constant current ** | 2 (2,5m)     |          |
|       | LO Long            |        |          |         |             |                       |              |          |
|       | PR Pro-Beam-Right  |        |          |         |             |                       |              |          |
|       | PL Pro-Beam-Left   |        |          |         |             |                       |              |          |

\* F constant voltage = one internal driver on board + external power supply for multiple luminaires

\*\* E constant current = one external power supply for each luminaire

**SIDEiS requires a dedicated mounting bracket. Refer to section Accessory mounting systems**



**ECOLIGHT**  
EFFICIENZA E PROFESSIONALITÀ PER L'AMBIENTE



Developed and  
produced in Italy

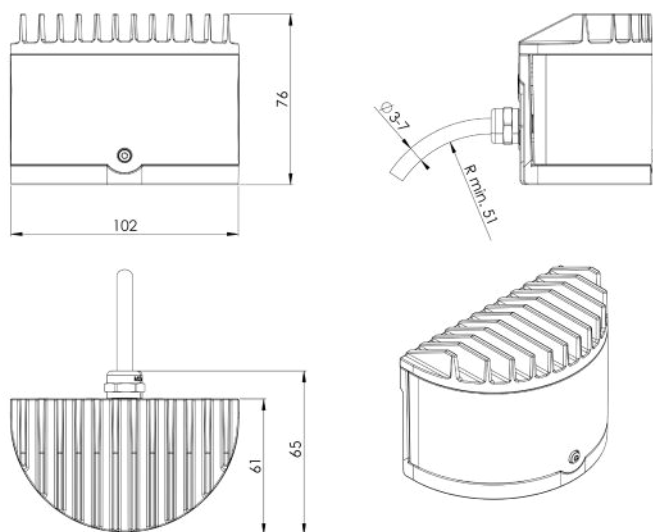


Ecofriendly  
Design



|                            |                                                                                                                                                                                                                                                                                                |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dimensions (LxDxH)         | 102x65x76 mm                                                                                                                                                                                                                                                                                   |
| Weight (without cable)     | 0,4 kg                                                                                                                                                                                                                                                                                         |
| Materials                  | <ul style="list-style-type: none"> <li>- Body in EN AB 46100 powder coated, anodised aluminum</li> <li>- Optical group in transparent PMMA</li> <li>- Gaskets in silicone foam</li> <li>- Screws in AISI 304 (A2) steel</li> <li>- Tightening torque for assembly screws 1.4±0.33Nm</li> </ul> |
| Colours                    | <ul style="list-style-type: none"> <li>- Standard colour brilliant grey RAL9007</li> <li>- Other colours on request</li> </ul>                                                                                                                                                                 |
| Finishes                   | <ul style="list-style-type: none"> <li>- Nanocoating technology for self-cleaning lens</li> <li>- Endurance tested in salt fog ambient 1500h</li> <li>- Marine grade option available</li> </ul>                                                                                               |
| IP rating                  | IP66                                                                                                                                                                                                                                                                                           |
| IK rating                  | IK09                                                                                                                                                                                                                                                                                           |
| Operating temperature (Ta) | Da -40° up to 50°                                                                                                                                                                                                                                                                              |
| Maximum wind exposed area  | 0,007 m2                                                                                                                                                                                                                                                                                       |
| Warranty                   | 5 Years                                                                                                                                                                                                                                                                                        |

## Version with cable gland



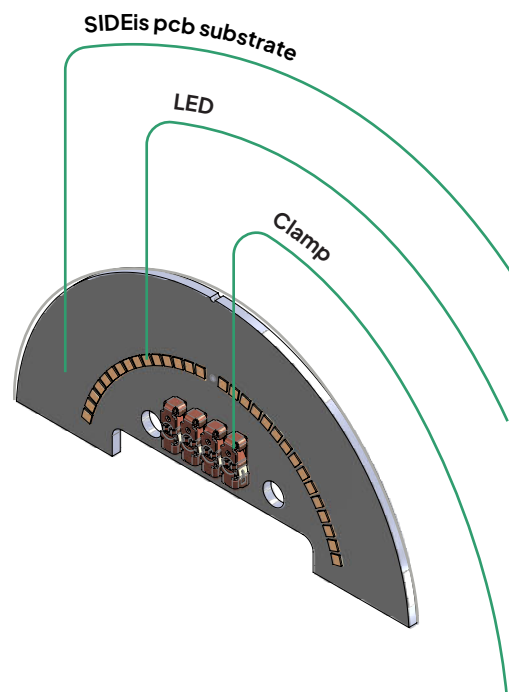
## Led source

|                                          |                      |
|------------------------------------------|----------------------|
| Type                                     | Multi-chip LED board |
| CCT                                      | 3000K e 4000K        |
| Colour rendering index                   | 70, 80 CRI           |
| Colour consistency                       | SDCM 3               |
| Photobiological risk (for EN 62471:2008) | RG0                  |
| Average life @Ta 25°                     | 100000h L90 B10      |

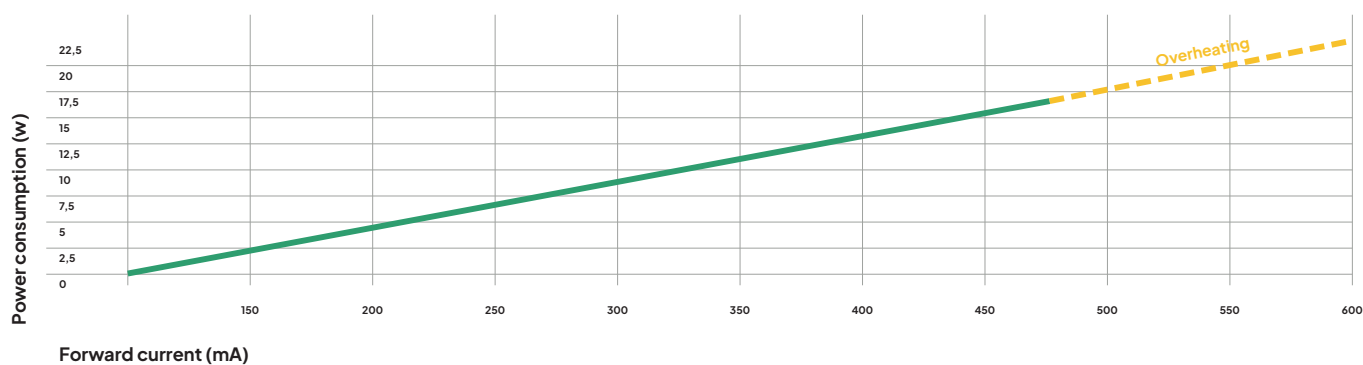


## Features

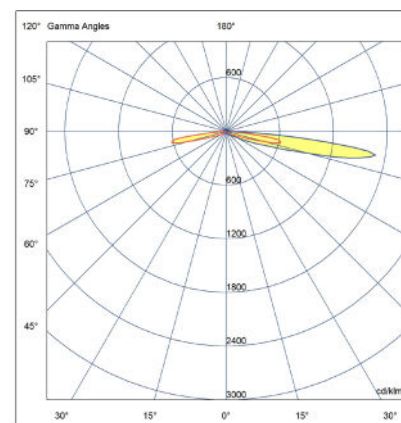
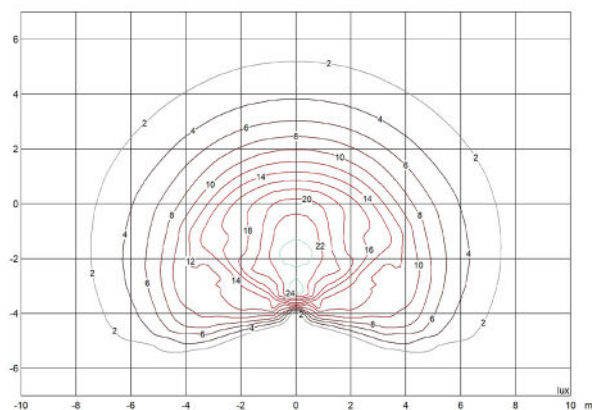
|                                         |                                                                                                    |
|-----------------------------------------|----------------------------------------------------------------------------------------------------|
| Nominal voltage                         | @48Vdc ±5% (on board driver)                                                                       |
| Power consumption (for 4000K CRI70 LED) | 12.7W @350mA                                                                                       |
| Insulation class                        | III                                                                                                |
| Electromagnetic compatibility (EMC)     | -40° up to 50°                                                                                     |
| Control systems                         | Fixed output                                                                                       |
| Cables and connections                  | Standard length 1.5m, Ø3÷7mm,<br>2x0.75mm <sup>2</sup> IP68 male and female<br>connector on demand |



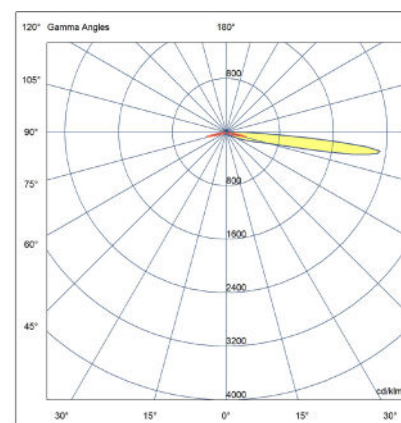
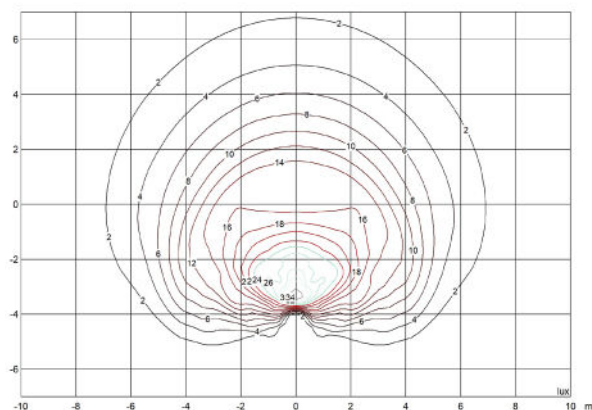
## Power consumption vs. forward current



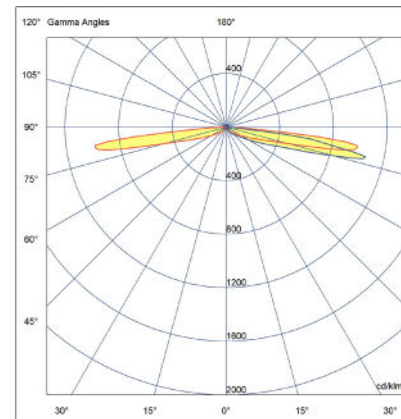
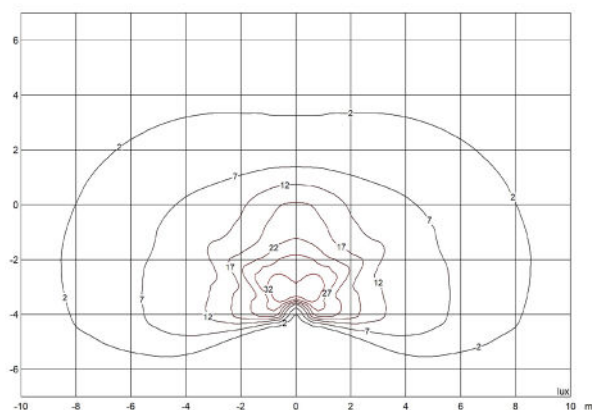
## T0 Transversal



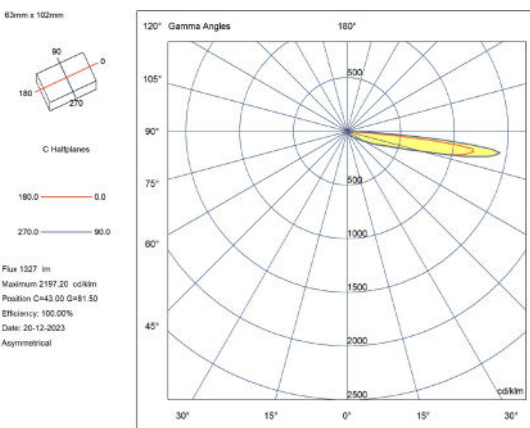
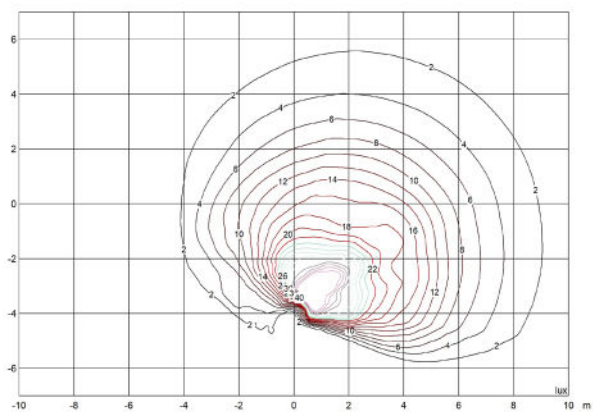
## FC Forward central



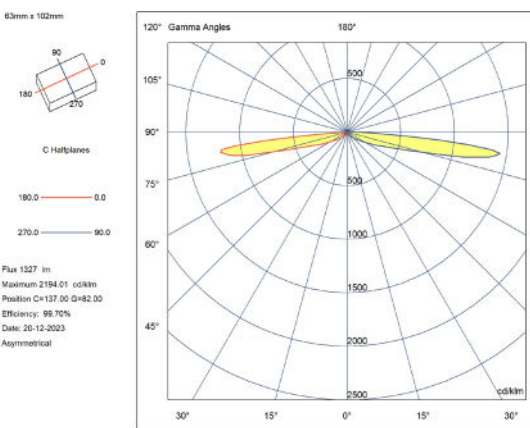
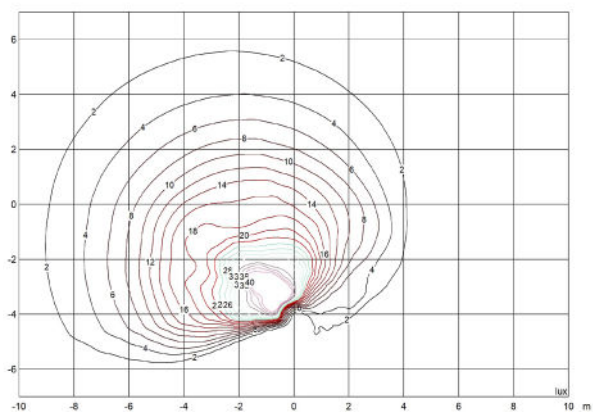
## LO Long



PR  
Pro beam right



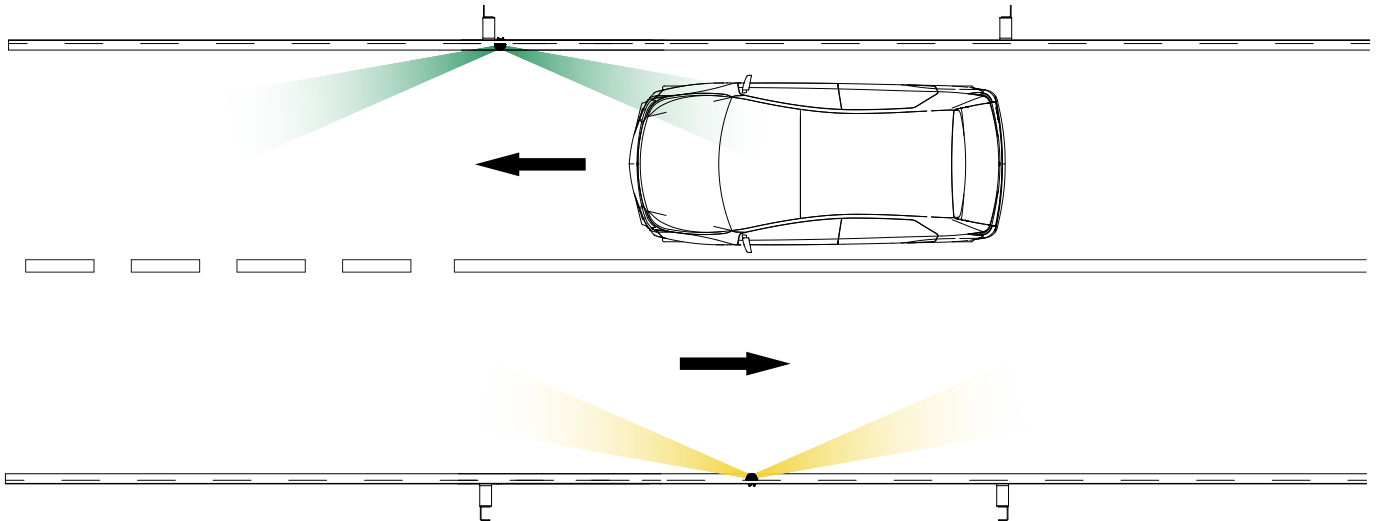
PL  
Pro beam left



| MODEL      | PHOTOMETRY      | CRI | CCT   | POWER (W) | LED FORWARD CURRENT (mA) | FLUX (Lm) | VERSION |
|------------|-----------------|-----|-------|-----------|--------------------------|-----------|---------|
| SIDEiS One | Transversal     | 70  | 4000K | 11,6      | 350 mA                   | 1328      | CC      |
| SIDEiS One | Forward-Central | 70  | 4000K | 11,6      | 350 mA                   | 1385      | CC      |
| SIDEiS One | Long            | 70  | 4000K | 11,6      | 350 mA                   | 1297      | CC      |
| SIDEiS One | Pro-Beam-Right  | 70  | 4000K | 11,6      | 350 mA                   | 1327      | CC      |
| SIDEiS One | Pro-Beam-Left   | 70  | 4000K | 11,6      | 350 mA                   | 1327      | CC      |
| SIDEiS One | Transversal     | 70  | 4000K | 15        | 450 mA                   | 1617      | CC      |
| SIDEiS One | Forward-Central | 70  | 4000K | 15        | 450 mA                   | 1686      | CC      |
| SIDEiS One | Long            | 70  | 4000K | 15        | 450 mA                   | 1579      | CC      |
| SIDEiS One | Pro-Beam-Right  | 70  | 4000K | 15        | 450 mA                   | 1616      | CC      |
| SIDEiS One | Pro-Beam-Left   | 70  | 4000K | 15        | 450 mA                   | 1616      | CC      |
| SIDEiS One | Transversal     | 70  | 4000K | 12,6      | 350 mA                   | 1242      | CV      |
| SIDEiS One | Forward-Central | 70  | 4000K | 12,6      | 350 mA                   | 1295      | CV      |
| SIDEiS One | Long            | 70  | 4000K | 12,6      | 350 mA                   | 1213      | CV      |
| SIDEiS One | Pro-Beam-Right  | 70  | 4000K | 12,6      | 350 mA                   | 1241      | CV      |
| SIDEiS One | Pro-Beam-Left   | 70  | 4000K | 12,6      | 350 mA                   | 1241      | CV      |
| SIDEiS One | Transversal     | 70  | 4000K | 16        | 450 mA                   | 1512      | CV      |
| SIDEiS One | Forward-Central | 70  | 4000K | 16        | 450 mA                   | 1328      | CV      |
| SIDEiS One | Long            | 70  | 4000K | 16        | 450 mA                   | 1385      | CV      |
| SIDEiS One | Pro-Beam-Right  | 70  | 4000K | 16        | 450 mA                   | 1297      | CV      |
| SIDEiS One | Pro-Beam-Left   | 70  | 4000K | 16        | 450 mA                   | 1327      | CV      |
| SIDEiS One | Transversal     | 70  | 3000K | 11,6      | 350 mA                   | 1327      | CC      |
| SIDEiS One | Forward-Central | 70  | 3000K | 11,6      | 350 mA                   | 1617      | CC      |
| SIDEiS One | Long            | 70  | 3000K | 11,6      | 350 mA                   | 1686      | CC      |
| SIDEiS One | Pro-Beam-Right  | 70  | 3000K | 11,6      | 350 mA                   | 1579      | CC      |
| SIDEiS One | Pro-Beam-Left   | 70  | 3000K | 11,6      | 350 mA                   | 1616      | CC      |
| SIDEiS One | Transversal     | 70  | 3000K | 15        | 450 mA                   | 1616      | CC      |
| SIDEiS One | Forward-Central | 70  | 3000K | 15        | 450 mA                   | 1242      | CC      |
| SIDEiS One | Long            | 70  | 3000K | 15        | 450 mA                   | 1295      | CC      |
| SIDEiS One | Pro-Beam-Right  | 70  | 3000K | 15        | 450 mA                   | 1213      | CC      |
| SIDEiS One | Pro-Beam-Left   | 70  | 3000K | 15        | 450 mA                   | 1241      | CC      |
| SIDEiS One | Transversal     | 70  | 3000K | 12,6      | 350 mA                   | 1241      | CV      |
| SIDEiS One | Forward-Central | 70  | 3000K | 12,6      | 350 mA                   | 1512      | CV      |
| SIDEiS One | Long            | 70  | 3000K | 12,6      | 350 mA                   | 1241      | CV      |
| SIDEiS One | Pro-Beam-Right  | 70  | 3000K | 12,6      | 350 mA                   | 1512      | CV      |
| SIDEiS One | Pro-Beam-Left   | 70  | 3000K | 12,6      | 350 mA                   | 1241      | CV      |
| SIDEiS One | Transversal     | 70  | 3000K | 16        | 450 mA                   | 1512      | CV      |
| SIDEiS One | Forward-Central | 70  | 3000K | 16        | 450 mA                   | 1241      | CV      |
| SIDEiS One | Long            | 70  | 3000K | 16        | 450 mA                   | 1512      | CV      |
| SIDEiS One | Pro-Beam-Right  | 70  | 3000K | 16        | 450 mA                   | 1241      | CV      |
| SIDEiS One | Pro-Beam-Left   | 70  | 3000K | 16        | 450 mA                   | 1512      | CV      |

CC One external power supply for each luminaire

CV One internal driver on board + external power supply for multiple luminaires



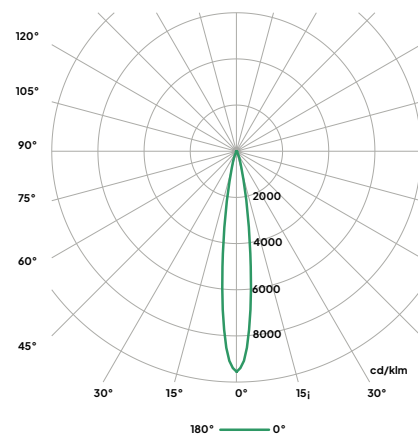
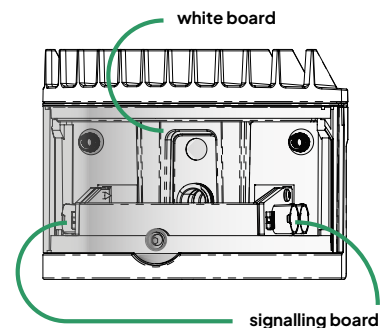
## SIGNALLING MODULES

SIDEis can be equipped with additional reporting LED modules in amber and red colour.

This way SIDEis is transformed into a configurable road flasher essential in presence of fog, accidents, queues and each sort of danger on lane.

Photometric features of these modules allow SIDEis to achieve L2H class complying EN 12352:2006 standard (Traffic control equipment - Warning and safety light).

Each luminaire is able to dialogue with the contiguous ones in order to obtain specified signal sets (whip effect, for instance).



**Power consumption (in continuous operation)**

2x0.84W (green LED)  
2x0.95W (yellow LED)

**Optical group**

PMMA lenses

**Light beam (FWHM)**

14°

**Maximum intensity on axis**

1566 cd (green)  
1503 cd (yellow)

**Output flux**

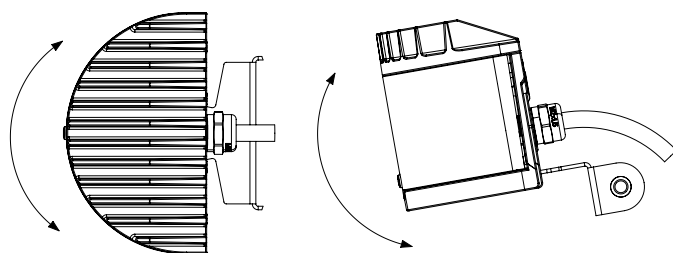
158 lm (green)  
151 lm (yellow)

**Control systems**

DMX, Dali

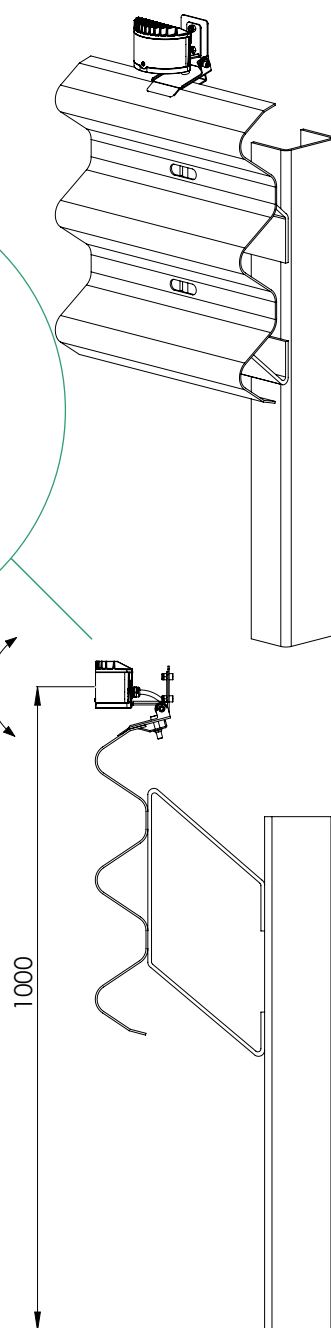
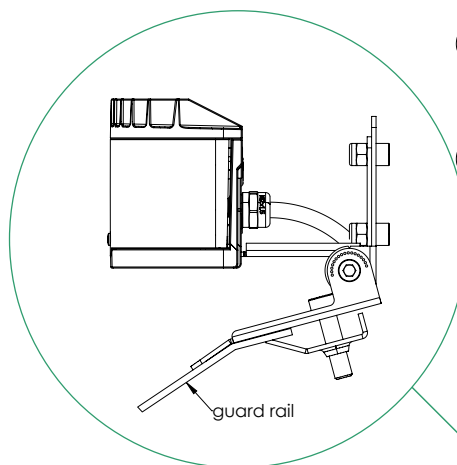
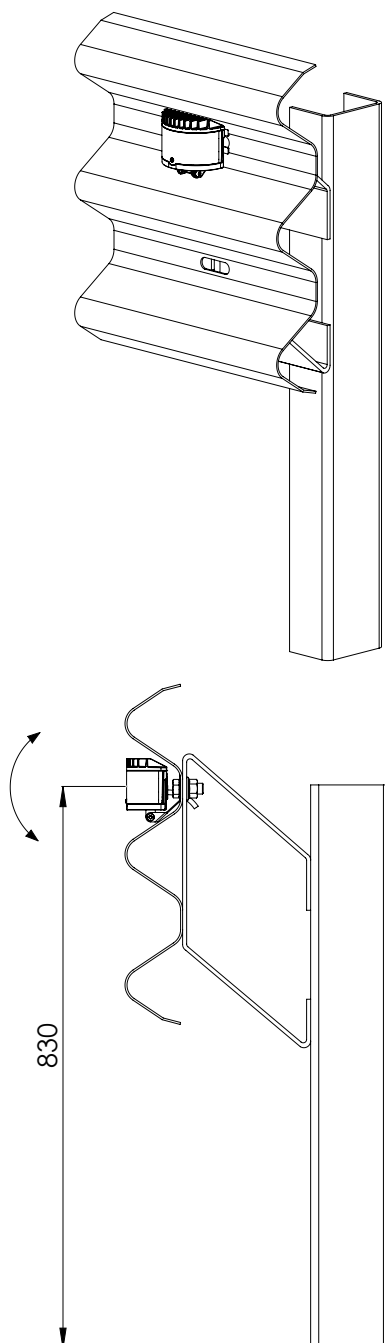
SIDEIS requires mounting brackets that can be adapted to the installation specifications. The accessory mounting kit can be custom designed and manufactured, typically in stainless steel; the fixture can be adjusted via horizontal and vertical tilt of  $-10^{\circ}$  /  $+10^{\circ}$ .

**The suggested mounting height is considered between 0.6 cm and 1 mt.**



## Guard rail BRK-G

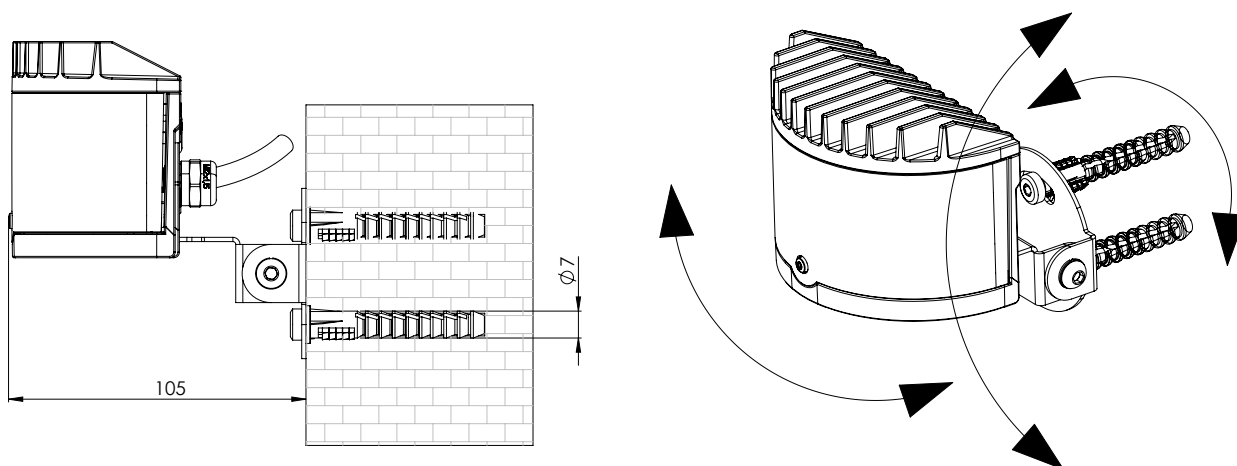
## Guard rail BRK-F



## Surface / Wall BRK-W

Wall mounting

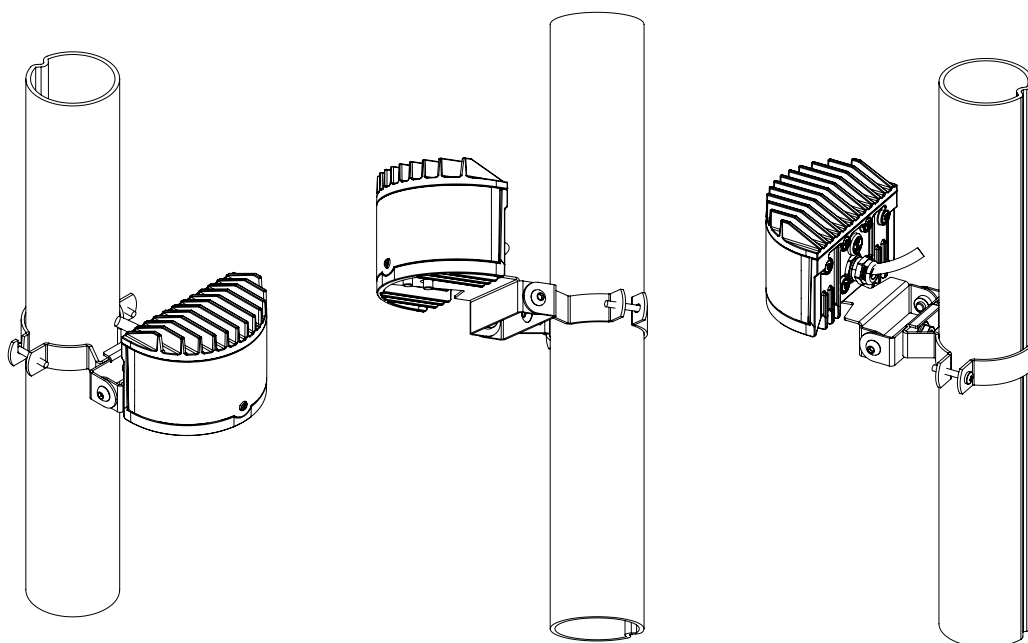
(Nogs not supplied)



## Low pole BRK-P

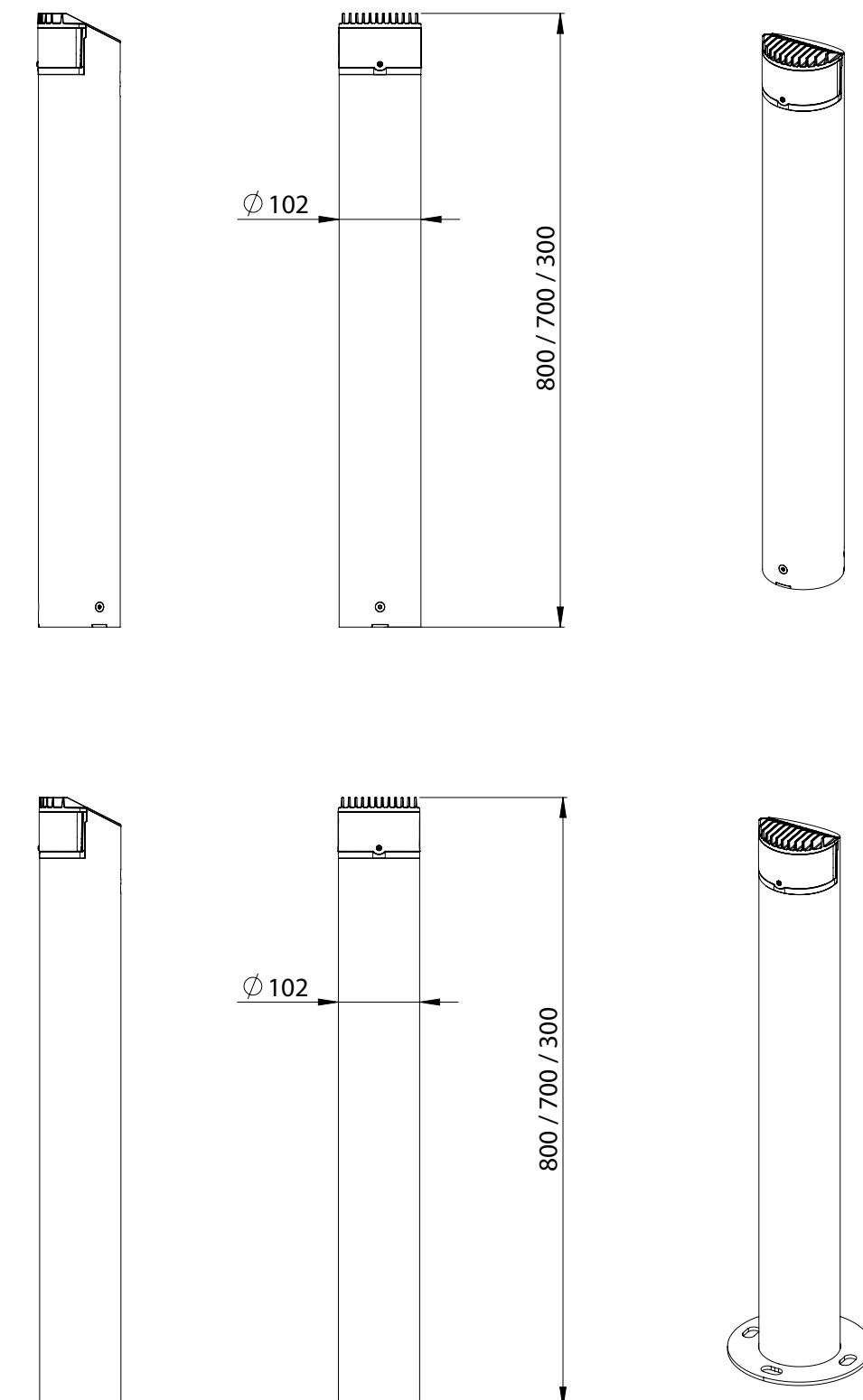
Support for Ø60 pole

(Pole not provided)



## On column BRK-C

Column support - Available in 3 heights (80, 70, 30cm)



Do not use alcohol/ammonia-based products for cleaning the luminaire. They may cause cracking or deterioration of PMMA lens. Use water or dish detergent-like liquids to remove dirt and halos, together with a soft wet cloth. Use of water jets with maximum pressure of 100kPa is allowed.

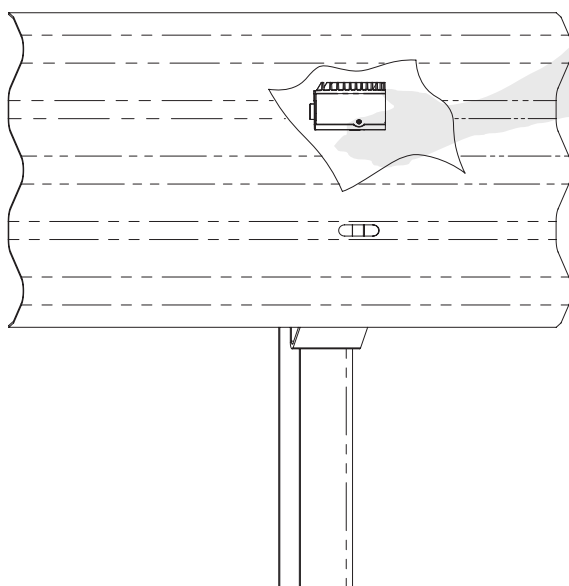
If the external flexible cable or cord of this luminaire is damaged, it shall be exclusively replaced by the manufacturer or his service agent or a similar qualified person in order to avoid a hazard.

The light source contained in this luminaire shall only be replaced by the manufacturer or his service agent or a similar qualified person.

Use a SELV LED control gear with a maximum output of 48Vdc in compliance with IEC/EN 61347-1 and IEC / EN 61347-2-13, protected against short circuit and overload.

**NO Ammonia-based products**

**NO Alcohol-based products**



All values shown in this datasheet are to be considered nominal values subject to a tolerance of  $\pm 5\%$ .

**Note:** In order to guarantee constant updating of the product, SIDEis Srl reserves the right to make changes to this document without notice.



**SIDEis S.r.l.**

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