

## **Technical information**



### **Tender text**

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- Indoor wall and ceiling, surface-mounted luminaire, with and without sensor
- Efficient replacement of CFL luminaires: 2x18W/ 1x26(28)W CFL (saves up to 55% energy)
- 4 types:
  - On/ off 3000K
  - HF Sensor 3000K
  - On/ off 4000K
  - HF Sensor 4000K
- Primary optical cover: PMMA; light emission: direct distribution
- LED luminous flux: 1.700lm; light colour: 830/ 840, colour temperature: 3.000K, 4.000K
- Control gear: integrated ECG, with 3-pole terminal
- Mains connection: U = 220..240V; P = 21W, 50/60Hz
- Housing: round, of sheet steel, white;  
Décor ring: anodized aluminium, silver  
Dimensions: ø380 mm x 65 mm
- Protection rating (complete): IP40
- Insulation class (complete): I (protective earthing)
- Certification: CE

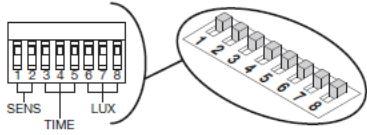
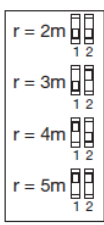
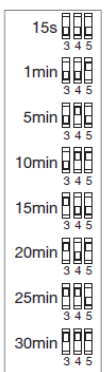
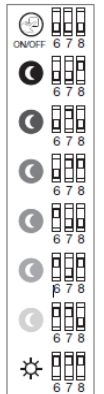
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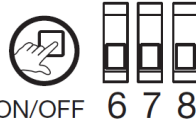
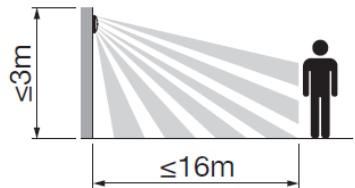
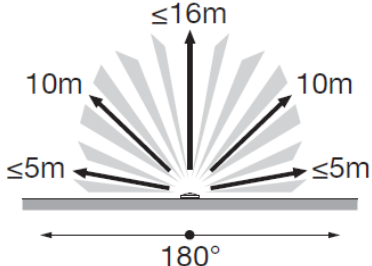
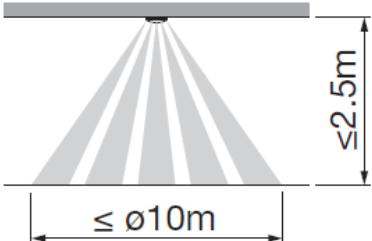
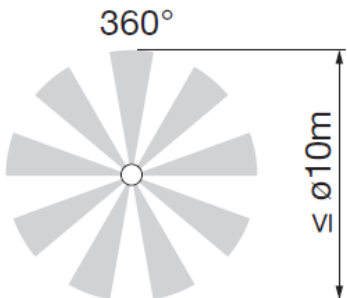
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| <br><b>A) Technical Information</b>               |          |

### 1) Housing, Mounting and Accessories

- Housing: round, of sheet steel, white
- Diffusor: PMMA
- Ring: anodizes aluminium, silver

| Product name           | POSIVO LED flat                   | POSIVO LED flat SENSOR (HF) |
|------------------------|-----------------------------------|-----------------------------|
| Body material          | Steel Sheet                       |                             |
| Color of body material | White                             |                             |
| Cover material         | PMMA with anodized aluminum frame |                             |
| Type of cover          | Diffuse (direct)                  |                             |
| Adjustable             | No                                |                             |
| Dimmable               | No                                |                             |
| Touch switch           | No                                |                             |

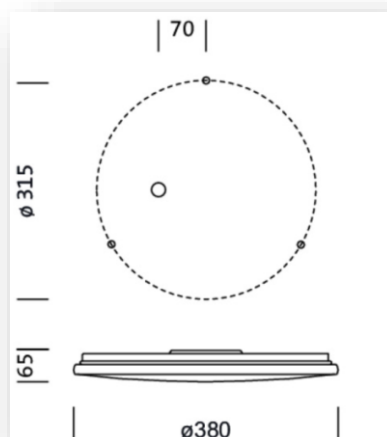
| Product name                                                                                                                                      | POSIVO LED flat | POSIVO LED flat SENSOR (HF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Sensor: Dip switch</b><br/><b>HF Sensor 5,8 GHz</b></p>  | ---             | <p>Sensing distance adjustable:<br/>Dip1 + Dip2:<br/>2m, 3m, 4m, 5m*</p> <p><b>SENS</b></p>  <p>*2m/3m/4m/ 5m to the left and<br/>2m/3m/4m/5m to the right</p> <p>Switching time adjustment:<br/>Dip3 + Dip4 + Dip5:<br/>15s, 1min, 5min, 10min, 15min,<br/>20min, 25min, 30min</p> <p><b>TIME</b></p>  <p>Lux adjustment:<br/>Dip6 + Dip7 + Dip8:<br/>24h, 10lx, 20lx, 50lx, 100lx, 200lx,<br/>300lx</p> <p><b>LUX</b></p>  |

| Product name                       | POSIVO LED flat | POSIVO LED flat SENSOR (HF)                                                                                                                                                                                                         |
|------------------------------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sensor OFF                         | ---             | <p>Manual luminaire control with main switch:<br/>Dip6 + Dip7 + Dip8 = off</p>                                                                   |
| Off time between movement          | ---             | 4 sec                                                                                                                                                                                                                               |
| Detection area<br>Wall mounting    | ---             |                                                              |
| Detection area<br>Ceiling mounting | ---             |   <p>Detection range = 10m<br/>Detection angel = 360°</p> |
| Diameter [mm]                      | Ø 380           |                                                                                                                                                                                                                                     |
| Height h [mm]                      | 65              |                                                                                                                                                                                                                                     |
| Net weight [g]                     | 1020            | 1060                                                                                                                                                                                                                                |
| Protection class                   | I               |                                                                                                                                                                                                                                     |
| Type of protection (IP code)       | IP 40           |                                                                                                                                                                                                                                     |

|                                    |         |
|------------------------------------|---------|
| Glow Wire Test acc. to IEC 695-2-1 | 650°C   |
| Shock resistance (IK code)         | IK 03   |
| Approval marks                     | CE, TÜV |

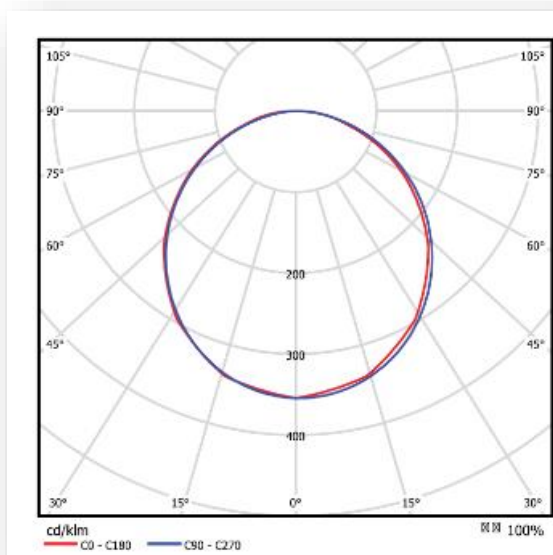
## 2) Electrical Installation

| Product name          | POSIVO LED flat                | POSIVO LED flat SENSOR (HF) |
|-----------------------|--------------------------------|-----------------------------|
| ECG                   | Integrated ECG                 |                             |
| Apparent wattage [VA] | 23,6                           | 29,1                        |
| Power Factor          | 0,95                           | 0,81                        |
| Effective wattage [W] | 22,4                           | 23,8                        |
| Effective voltage [V] | 230                            |                             |
| Rated current [A]     | 0,102                          | 0,126                       |
| Mains voltage [V]     | 220...240                      |                             |
| Mains frequency [Hz]  | 50                             |                             |
| Standby [W]           | < 0,5                          |                             |
| Type of connector     | Spring cable clamp (screwless) |                             |
| Switching cycles      | ≥ 500.000                      |                             |
| Circuit Breaker       | Amount of luminaires           |                             |
| B10                   | 70                             | 65                          |
| B16                   | 115                            | 105                         |
| C10                   | 120                            | 110                         |
| C16                   | 190                            | 175                         |
| D10                   | 240                            | 220                         |
| D16                   | 385                            | 350                         |



### 3) Optical features

| Product name                          | POSIVO LED flat            | POSIVO LED flat SENSOR (HF) |
|---------------------------------------|----------------------------|-----------------------------|
| Equipped with Lamp                    | Yes                        |                             |
| Lamp type                             | LED                        |                             |
| MacAdams                              | ≤ 5                        |                             |
| Number of LED                         | 132 pieces LED             |                             |
| Lifetime of LED / Luminaire [h]       | 30.000<br>(L70/B50 @ 25°C) |                             |
| Color Rendering Index CRI             | ≥ 85                       |                             |
| Color Temperature CCT                 | 3.000K / 4000K ± 10 %      |                             |
| X-Coordinate                          | 0,3705                     |                             |
| Y-Coordinate                          | 0,3705                     |                             |
| Luminous Flux [lm]                    | 1725                       |                             |
| Luminous Intensity max. [cd], [lm/sr] | 570                        |                             |
| Illuminance 1m [lx], [lm/m²]          | 570                        |                             |



#### 4) Control

| Product name                             | POSIVO LED flat | POSIVO LED flat SENSOR (HF) |
|------------------------------------------|-----------------|-----------------------------|
| Ballast / Control gear                   | Integrated ECG  |                             |
| Communication interface                  | No              |                             |
| Secondary voltage [V]                    | 36,1 V          | 36,7 V                      |
| Secondary current [A]                    | 0,548 A         | 0,547 A                     |
| Color control                            | No              |                             |
| Dimmable                                 | No              |                             |
| Through wiring                           | Yes             |                             |
| Energy Efficiency Index EEI (LED Module) | 0,18            |                             |

#### B) Logistic Data

| Product name                  | EAN 010       | MLFB           | Quantity per VSE |
|-------------------------------|---------------|----------------|------------------|
| POSIVO LED FLAT 3000K         | 4052899452756 | 0MJ2712L18830  | 4x1              |
| POSIVO LED FLAT 4.000K        | 4052899452817 | 0MJ2712L18840  | 4x1              |
| POSIVO LED FLAT SENSOR 3.000K | 4052899452770 | 0MJ2712L18830S | 4x1              |
| POSIVO LED FLAT SENSOR 4.000K | 4052899452794 | 0MJ2712L18840S | 4x1              |