



## MOTION AND PRESENCE DETECTORS

### Contact closing with zero load and "ZERO CROSSING" method

The relay contacts will open and close only in the instant when the voltage is equal to zero. This method allows to increase the contact lifetime by optimizing the activation and deactivation of the load. ZERO CROSSING products are particularly suitable for controlling electronic lamps, LED and energy-saving lamps.

#### 1SP SP050

##### Motion detector for recess mounting in round box, white lens - IP 40



- Possibility of manual override to keep the light on five hours by disabling the action of the sensor.

- Power supply 230V a.c.  $\pm$  10% 50 Hz
- Maximum lighting load:  
incandescent lamps 1.000W  
fluorescent lamps (uncompensated) 480W  
fluorescent lamps (compensated in parallel) 250W  
CFL / LED lamps (230V) 7W  $\div$  23W max 8 lamps
- Protection degree IP 40
- Wire section at terminals 0,75..... 2,5 mm<sup>2</sup>
- Degree of pollution normal
- Installation in recess mounted round box

- Detection angle 180° up to 3m, 160° from 3 m to 12 m
- Detection distance 12 m
- Adjustment of deactivation delay from 15" to about 30"
- Lux adjustment from 20 to 300 LUX
- Warm Up Time when first powered or after blackout about 1 minute
- Operating temperature from 0°C to +40°C
- Storing temperature from -10°C to +60°C
- CE marking reference standard LVD/EMC EN60669-2-1
- Dimensions (L x W x H) 80 x 54,5 x 80 mm



#### 1SP SP044B - IP44

#### 1SP SP055B - IP55

##### Wall-mounted motion detector "ZERO" range - white color

- Equipped with adapter for installation in corners.

- Possibility of limiting the detection range by obscuring the segments of the lens either horizontally or vertically.

- Power supply 230V a.c.  $\pm$  10% 50 Hz
- Maximum lighting load:  
incandescent lamps 1.800W  
fluorescent lamps (uncompensated) 480W  
fluorescent lamps (compensated in parallel) 250W  
CFL / LED lamps (230V) 7W  $\div$  23W max 5 lamps
- Protection degree IP44 (SP044) - IP55 (SP055)
- Wire section at terminals 0,75..... 2,5 mm<sup>2</sup>
- Degree of pollution normal
- Detection angle up to 220°

- Detection distance 12 m
- Adjustment of deactivation delay from about 35" to about 20"
- Lux adjustment from 5 to 1.000 LUX
- Warm Up Time when first powered or after blackout about 40"
- Operating temperature from -20°C to +40°C
- Storing temperature from -20°C to +70°C
- CE marking reference standard LVD/EMC EN60669-2-1
- Dimensions (L x W x H) 72,6 x 91,6 x 93,5 mm



#### 1SP SP003A - Anthracite color

#### 1SP SP003B - White color

##### Wall-mounted infrared motion detector "CUBE" with "zero crossing"- IP 54

- Possibility of manual override to keep the lights on 5 hours disabling the action of the sensor.

- Power supply 230V a.c.  $\pm$  20% 50 Hz
- Relay output 5A
- Maximum lighting load:  
incandescent lamps 1.000W  
fluorescent lamps (uncompensated) 480W  
fluorescent lamps (compensated in parallel) 200W  
CFL / LED lamps (230V) 7W  $\div$  23W max 8 lamps
- "ZERO CROSSING" on relay - Contact closure with zero load to increase the connectable load and relay endurance

- Protection degree IP 54
- Degree of pollution normal
- Detection angle 140° - Detection distance max 10 m
- Head swivelling angle 180° horizontal, 12° vertical
- Adjustment of deactivation delay 10" - 12"
- Lux adjustment from 5 to 300 LUX
- Sensitivity adjustment 40cm - 10m
- Insulation class II
- CE marking reference standard LVD/EMC EN60669-2-1
- Dimensions (L x W x H) 50 x 64 x 102 mm

ZERO CROSSING



#### 1SP SP005

##### Wall-mounted infrared motion detector with "zero crossing" - IP 55 white color

- Equipped with adapter for installation in corners.

- Possibility of limiting the detection range by obscuring the segments of the lens either horizontally or vertically.

- Possibility of manual override to keep the lights on 4 hours disabling the action of the sensor.

- Power supply 220 $\div$ 240V c.a. 50Hz
- Maximum lighting load:  
incandescent lamps 2.000W  
fluorescent lamps (uncompensated) 480W  
fluorescent lamps (compensated in parallel) 220W  
CFL / LED lamps (230V) 7W  $\div$  23W max 8 lamps
- "ZERO CROSSING" on relay - Contact closure with zero load to increase the connectable load and relay endurance
- Protection degree IP 55
- Degree of pollution normal

- Detection angle 240°
- Detection distance max 12 m
- Head swivelling angle 180° horizontal (limitable)
- Adjustment of deactivation delay 5" - 12"
- Lux adjustment from 5 to 1.000 LUX
- Sensitivity adjustment 3 - 12m
- Insulation class II
- CE marking reference standard LVD/EMC EN60669-2-1
- Dimensions (L x W x H) 72 x 106 x 88 mm

ZERO CROSSING



#### 1SP SP060B

##### Wall-mounted motion detector with courtesy LED light - IP54

- Equipped with adapter for ceiling installation

- Power supply 230V a.c.  $\pm$  10% 50 Hz
- Maximum lighting load:  
incandescent lamps 1.000W  
fluorescent lamps (uncompensated) 400W  
fluorescent lamps (compensated in parallel) 250W  
CFL / LED lamps (230V) 7W  $\div$  23W max 5 lamps
- "ZERO CROSSING" on relay - Contact closure with zero load to increase the connectable load and relay endurance

- Protection degree IP54
- Detection angle 180°
- Detection distance 12 m
- Adjustment of deactivation delay from about 5" to 12"
- Lux adjustment from 20 to 300 LUX
- Insulation class II
- Consumption in stand-by mode 0,5W
- Dimensions (L x W x H) 60 x 92 x 80 mm

ZERO CROSSING



- Head adjustable horizontally and vertically.

## 1SP SP010

### Wall-mounted infrared motion detector - IP 44 - white color

**ZERO CROSSING**

- Power supply 220÷240V c.a. 50Hz
- Maximum lighting load:
  - incandescent lamps 1.000W
  - fluorescent lamps (uncompensated) 400W
  - fluorescent lamps (compensated in parallel) 220W
  - CFL / LED lamps (230V) 7W ÷ 23W max 8 lamps
- "ZERO CROSSING" on relay - Contact closure with zero load to increase the connectable load and relay endurance
- Protection degree IP44
- Degree of pollution normal
- Detection angle 180°
- Detection distance max 12 m
- Head swivelling angle 70° horizontal - 35° vertical
- Adjustment of deactivation delay 5" - 12'
- Lux adjustment from 1 to 1.000 LUX
- Insulation class II
- CE marking reference standard LVD/EMC EN60669-2-1
- Dimensions (L x W x H) 65 x 88 x 95 mm



- Possibility of manual override to keep the lights on 4 hours disabling the action of the sensor.

## 1SP SP015

### 1SP SP015CL - 1 potential free changeover contact

### Ceiling mounted infrared presence detector with "zero crossing" – IP20

**ZERO CROSSING**

- Power supply 220÷240V c.a. 50Hz
- Maximum lighting load:
  - incandescent lamps 2.000W
  - fluorescent lamps (uncompensated) 480W
  - fluorescent lamps (compensated in parallel) 250W
  - CFL / LED lamps (230V) 7W ÷ 23W max 8 lamps
- "ZERO CROSSING" on relay - Contact closure with zero load to increase the connectable load and relay endurance
- Protection degree IP 20
- Degree of pollution normal
- Detection angle 360°
- Detection distance max 12 m
- Adjustment of deactivation delay 2' - 15'
- Lux adjustment from 5 to 1.000 LUX
- Insulation class II
- CE marking reference standard LVD/EMC EN60669-2-1
- Dimensions (DxW) Ø 130 x 70 mm



## 1SP SP020

### Recess mounted in ceiling infrared presence detector with "zero crossing" - IP 20

**ZERO CROSSING**

- Power supply 220÷240V c.a. 50Hz
- Diameter installation hole Ø 70mm
- Maximum lighting load:
  - incandescent lamps 2.000W
  - fluorescent lamps (uncompensated) 480W
  - fluorescent lamps (compensated in parallel) 250W
  - CFL / LED lamps (230V) 7W ÷ 23W max 8 lamps
- "ZERO CROSSING" on relay - Contact closure with zero load to increase the connectable load and relay endurance
- Protection degree IP 20
- Degree of pollution normal
- Detection angle 360°
- Detection distance max 14 m
- Adjustment of deactivation delay 10 settings  
5, 10, 20, 40, 80, 160 seconds / 5, 10, 20, 40 minutes
- Lux adjustment from 30 to 200 LUX
- Insulation class II
- CE marking reference standard LVD/EMC EN60669-2-1
- Dimensions (DxW) Ø 79,80 x 91 mm
- Height of lens 18mm



## 1MC D002

### Dimmer for flush mounting Ø 60 mm round box

- Power supply 230V c.a. ± 10% 50 Hz
- Maximum lighting load:
  - Incandescent lamps TE 400W
  - Alogen lamps TE 400W
  - LED TE 100W
  - LED LE 25W
  - Electromechanical trasformers L type LE 200W
- P (min-max) 0-200/0-200/0-100/0-25/0-200W
- Button mode: LE or TE
- Max cross-section of wires to terminals: 0,75... 6 mm<sup>2</sup>
- Protection degree IP 20
- Working temperature from -10°C to +35°C
- Storing temperature from -10°C to +60°C
- CE marking reference standard LVD/EMC DIRECTIVE BT; EMC: 2002/96/EC; 2002/95/EC, EN61000-3-2
- Dimensions (L x W x H) 58,7 x 45 x 25,3 mm