

## TROUBLE SHOOTING:

### Unit will not function at all, lights not working

1. a. check wiring to make sure that AC power is at the unit.
2. b. check the wiring at the unit to make sure the unit is wired correctly
3. c. check ambient light level "not in the wrong position"

### Poor sensitivity:

1. Check if there are obstacles in front of the detection window, this will effect the detection zone
2. Check if the ambient temperature is too high.
3. Check if the signal source is in the detection fields.
4. Check if the installation height corresponds to the height showed in the instruction.
5. Please check if the moving orientation is correct.

**Note:** when testing in daylight, please turn LUX knob to ☀ [SUN] position, otherwise the luminaire will not work!

### Load not switching off automatically:

1. Check if there is continual signal in the detection field.
2. Check if the time delay is set to max.
3. Check if the sensor is correctly installed as per instructions
4. Check if the temperature changes near the sensor changes, such as air condition or central heating etc.

# DA'SEL

BASIC

## DS130 BASIC

Infrared motion sensor

## INSTALLATION AND INSTRUCTIONS

DA'SEL PIR IP44 rated sensors are a high quality sensor and a cost effective solution for commercial and domestic users in helping reduce energy consumption. Energy savings start as soon as the sensors are installed.

DA'SEL sensors ensure that lighting only comes on when required, and most importantly that lighting is switched off when an area is no longer in use.



# DA'SEL

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\* 1 year warranty on DA'SEL BASIC, 2 Years on DA'SEL STANDARD and 5 years on DA'SEL PROFESSIONAL

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#### SPECIFICATION:

**Power Sourcing:** 220V/AC-240V/AC

**Detection Range:** 180°

**Power Frequency:** 50Hz

**Working Temperature:** -20~+40°C

**Ambient Light:** 3-2000LUX (Adjustable)

**Working Humidity:** <93%RH

**Time-Delay:** Min.10sec±3sec

Max.8min±2min

**Installing Height:** 1.8m~2.5m

**Power Consumption:** 0.45W (work)

0.1W (static)

**Rated Load:** 1200W (incandescent lamp)

300W (energy-saving lamp)

**Detection Motion Speed:** 0.6~1.5m/s

**Detection Distance:** 12m max (<24°C)

**IP Rating:** IP44

#### FUNCTION:

- Detection area: The detection area can be adjusted by either moving the sensor head up and down or left and right, the detection area can be adjusted according to your requirements
- Identifies day and night automatically. Adjusts ambient light levels according to your requirements: When set to "SUN" (max), it will work during the day and night. When set to "MOON" (min), it will only operate if it's less than 3LUX. For further adjustments, please refer to the section "TEST".

- The time-delay is added continuously: When the sensor detects the first movement it will initiate the time delay, if movement is detected within that time delay period, the timer will reset to the initial time delay and so on.
- Time-delay adjustment: Is adjustable. The minimum is 10sec±3sec; the maximum is 8min±2min.



Good Sensitivity



Poor Sensitivity

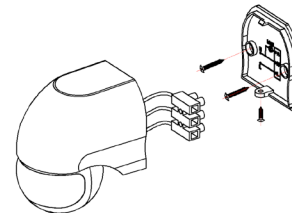
#### INSTALLATION:

(Refer installation diagram on the right)

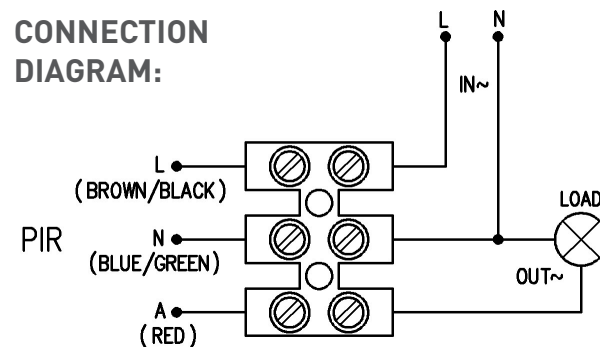
- Turn the power off.
- Remove screw from the underside of the sensor, remove the rear mounting plate, and pass the cable through the grommet. (to ensure continued IP rating ensure the correct cable is used).
- Fix the mounting plate to the desired position.
- Connect the cable into the connector strip according to the wiring diagram.
- Push the sensor on to the mounting plate, tighten the screw and the unit is ready for testing



## INSTALLATION AND INSTRUCTIONS

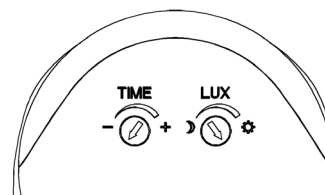


#### CONNECTION DIAGRAM:



#### TEST:

- Turn time knob anti-clockwise to the minimum; turn the LUX knob clockwise to the maximum (SUN), Turn on power, (the sensor will need time to warm up), approx. 30 seconds later the sensor will be ready for operation.
- After 5-10sec when the luminaire has switched off for the first time the sensor is ready for use.
- Turning the LUX knob anti-clockwise to minimum (moon). The switch output load will not work after the load has switched off due to ambient light levels above 3lux. Cover the detection window with an opaque object; such as a towel etc, the load should switch on.



#### NOTE:

- Must be installed by qualified electrician
- Avoid installing it on the unrest surfaces.
- Ensure no obstacles or moving objects in front of the detection windows. This will effect detection area
- Avoid installing the sensor near air condition, central heating, etc.
- Considering your safety, please ensure power is isolated before opening an installed product
- If there is difference between instruction sheet and the product please phone ECS or view our web site and down load the data/ installation manual