

**DGOZ-SEN-PRLLSW-IP - RAPIX IP Rated Long Range Occupancy Sensor With Auxiliary Input**



**Product summary and capabilities**

The Long-range Occupancy Sensor acts as an occupancy (presence) sensor, light level sensor and DALI Application Controller. The advanced control functions can be used in any DALI or DALI-2 system.

The sensor is commissioned using the RAPIX Addressing or RAPIX Integrator software. These software packages are available at no charge from [ozuno.com](http://ozuno.com).

This sensor is mounted in a sealed enclosure and has IP65 rating when suitable care is taken with mounting and electrical connection.

**Important notes and safety information**



**WARNING** – Electric shock may result in serious injury or death. Follow all warnings in this guide and on the product. Work in accordance with the latest electrical safety practices.

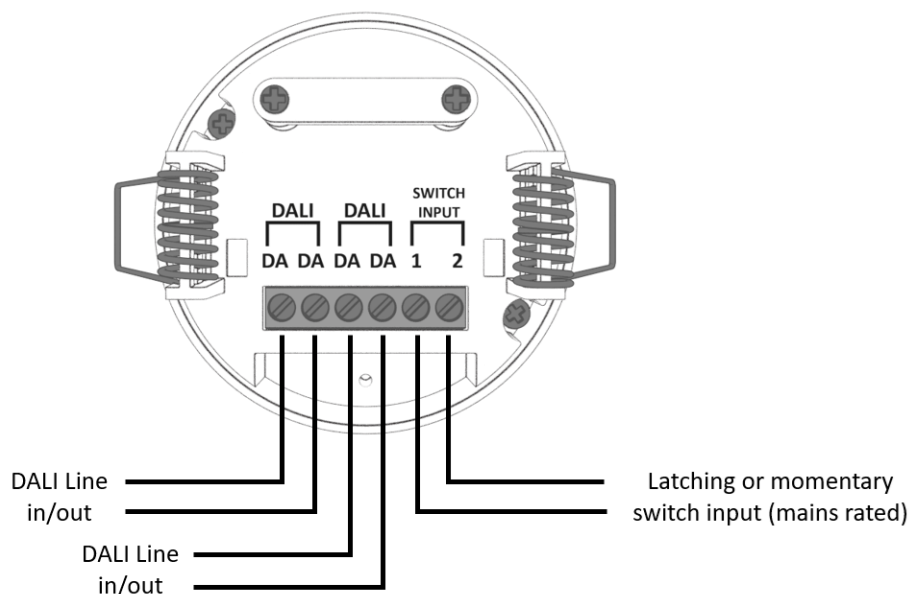
- This Occupancy Sensor is powered only from DALI line.
- DALI system wiring is only single insulated from mains. Treat DALI wiring the same as mains wiring.
- The Auxiliary input wiring has no isolation from DALI. Treat the Auxiliary input the same as mains wiring.
- **The Auxiliary input does not provide any power source. Connect it only to voltage-free contacts or a switch. Do not connect any part of the Auxiliary Input to any other power source, or to earth, or to mains line or neutral.**
- There are **no user serviceable parts** inside the Occupancy Sensor. Do not attempt to disassemble or operate the device with any covers removed.
- This sensor is intended for **indoor use only**.

**Indicators**



**Discovery:** The RAPIX commissioning software includes a discovery function. When activated, an indicator under the PIR lens will flash. This allows physical location of the sensor after it has been installed.

**Terminals**



## Mounting

The recommended mounting height is in the range 6 to 12 metres.

This sensor can be mounted to a bulkhead or on conduit.



**WARNING** – The IP rating of this sensor is only as good as the weakest part.

**Any holes made in the enclosure will allow entry of water or moisture.**

Take great care with mounting holes and cable entry. The guidance given here should help to prevent problems caused by entry of water into the product enclosure.

Use the following guidance:

1. **After being tightened: any screws used for mounting must be carefully sealed to prevent water entry around screw holes.**  
*Apply silicon sealer over and covering screw heads on the inside of the enclosure. Push sealer into place carefully so that no water entry is possible around screw holes and screw threads.*
2. **Preferable: Connect the sensor to the electrical cabling system using conduit fittings with side entry into the back box.**  
*Conduit entry is preferred because it allows better sealing. Conduit fittings must be sealed where conduit enters bulkhead fittings, and around all sides of washers and under nuts, and so on. Apply silicon sealer before doing up nuts. Apply silicon sealer to conduit and into conduit fittings before mating conduit to fittings. Ensure all surfaces to be sealed are covered by sealer.*
3. **If cable glands are used:**
  - a. **These must sit completely flush.** Carefully check the inside and outside surfaces. If needed, trim back internal plastic ribs from the enclosure body.
  - b. **Additional sealant must be used on all surfaces of all sealing washers (inside and outside) and on the inner nut.** Sealant should ooze out from all parts of washers when the inner nut is tightened.
  - c. **ONLY ROUND CABLE CAN PASS THROUGH A CABLE GLAND AND MAKE AN ADEQUATE SEAL.** Do not use mains oval-section TPS cable through a cable gland.
  - d. **All grommets and flexible parts of the cable sealing system in the cable gland must be in place and used.**
  - e. **Additional sealant around the cable passing through the gland is recommended.** This should ooze out when the cable nut is tightened.






*Cable glands may allow a quick and easy connection, but they are very difficult to properly seal. Use the above guidance to help get good sealing. Preferably – use conduit connection instead.*
4. **After any installation using sealant, the sealant must be allowed to properly cure before final assembly.**  
*Silicon sealer can give off vapours while curing. A full curing should be allowed before final assembly so that vapours can dissipate. Different sealing compounds have different curing times so read the instructions for the compound being used. If in any doubt allow at least 24 hours curing time.*

## Commissioning

Use the free RAPIX Addressing or RAPIX Integrator software, available at [ozuno.com](http://ozuno.com).

A RAPIX USB Interface or Zone Controller is required to connect the commissioning software / PC to the DALI line.

## Specifications

Sensor	
Detection range (radius)	Up to 12 metres, dependant on ceiling height. See diagrams for typical cases.
Suitable ceiling mounting heights	From 5 m to 12 m
Light Level Measurement range	0 – 4000 lux
Power source	DALI line
Compatibility	DALI and DALI-2
DALI line capacity	Connects to 1 DALI line
DALI operating voltage	16 V dc (nominal), with suitable operation from 9.5 V – 22.5 V
DALI line current draw	2 mA (nominal)
Mains tolerance	DALI input and auxiliary input are mains voltage tolerant
DALI connection	4 Tunnel Terminal block Each tunnel suitable for 1 x 2.5 mm <sup>2</sup> or 2 x 1.5 mm <sup>2</sup> wires
Auxiliary connection	2 Tunnel Terminal block Each tunnel suitable for 1 x 2.5 mm <sup>2</sup> or 2 x 1.5 mm <sup>2</sup> wires
Maximum auxiliary cable length	25 m – when using twin core mains cable $\geq 0.75$ mm <sup>2</sup> wires
Auxiliary input types	Momentary switch, toggle switch or motion sensor voltage-free contacts
Indicators	Identification: 1 x green, front through sensor lens
Ambient operating temperature	-10 to 50° C
Ambient storage temperature	-10 to 70° C
Humidity	0% to 95% RH non-condensing
Ingress protection	IP65, when suitable care is taken with mounting and cable entry.
Materials	Halogen free, shock proof PS
Weight	210 g
DALI line addressing	None – this sensor does not use a DALI Short Address
DALI addressing types supported	Short Addresses, Group Addresses, Scenes, Broadcast
Number of RAPIX extended addresses used	One
Number of IP rated and other RAPIX sensors or switches per DALI line	Any mix on a line of up to 20 RAPIX switches and sensors
Additional addressing types*	RAPIX Zones, RAPIX Flags, RAPIX Operating Properties
Approvals	    
* RAPIX features and additional addressing types work with other RAPIX products.	

## Standards and compliance

The product is designed to meet/exceed the following Australian and International standards:

### EMC and Electrical Safety Frameworks and Standards

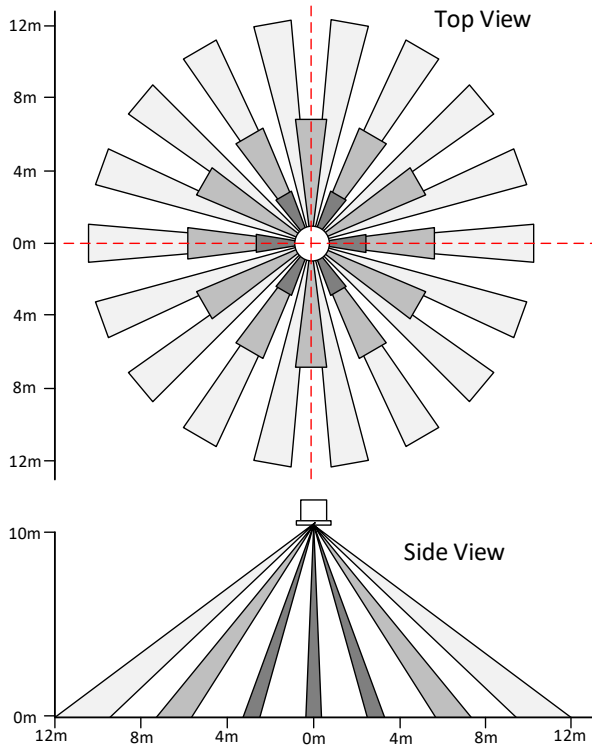
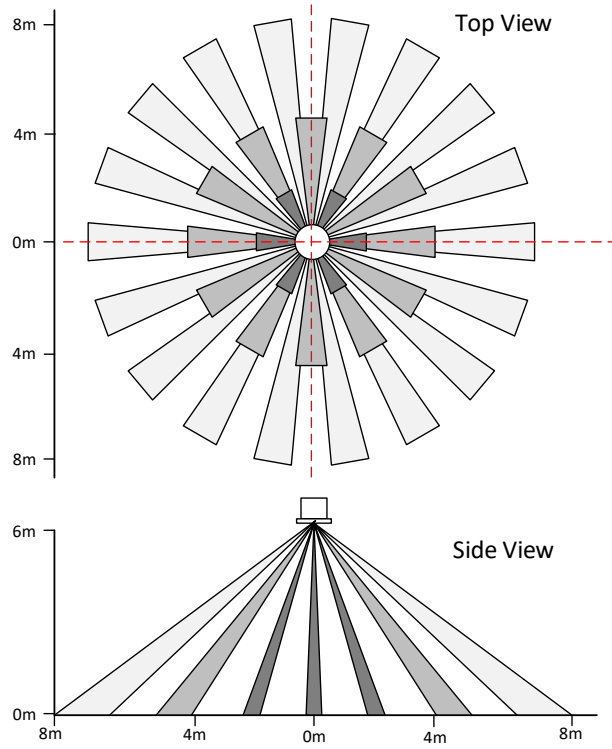
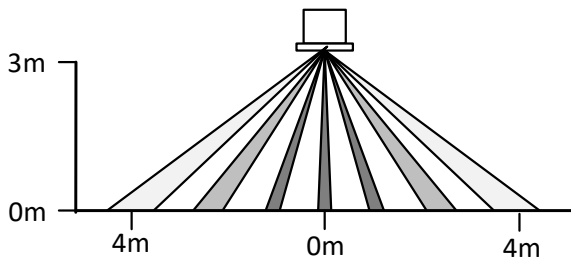
IEC/EN 55015, AS/NZS CISPR 15, AS CISPR 15  
 EN 55032, AS/NZS CISPR32  
 EN 55035  
 EN 61547  
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 EN 61347-1, AS/NZS 61347.1  
 EN 62368-1

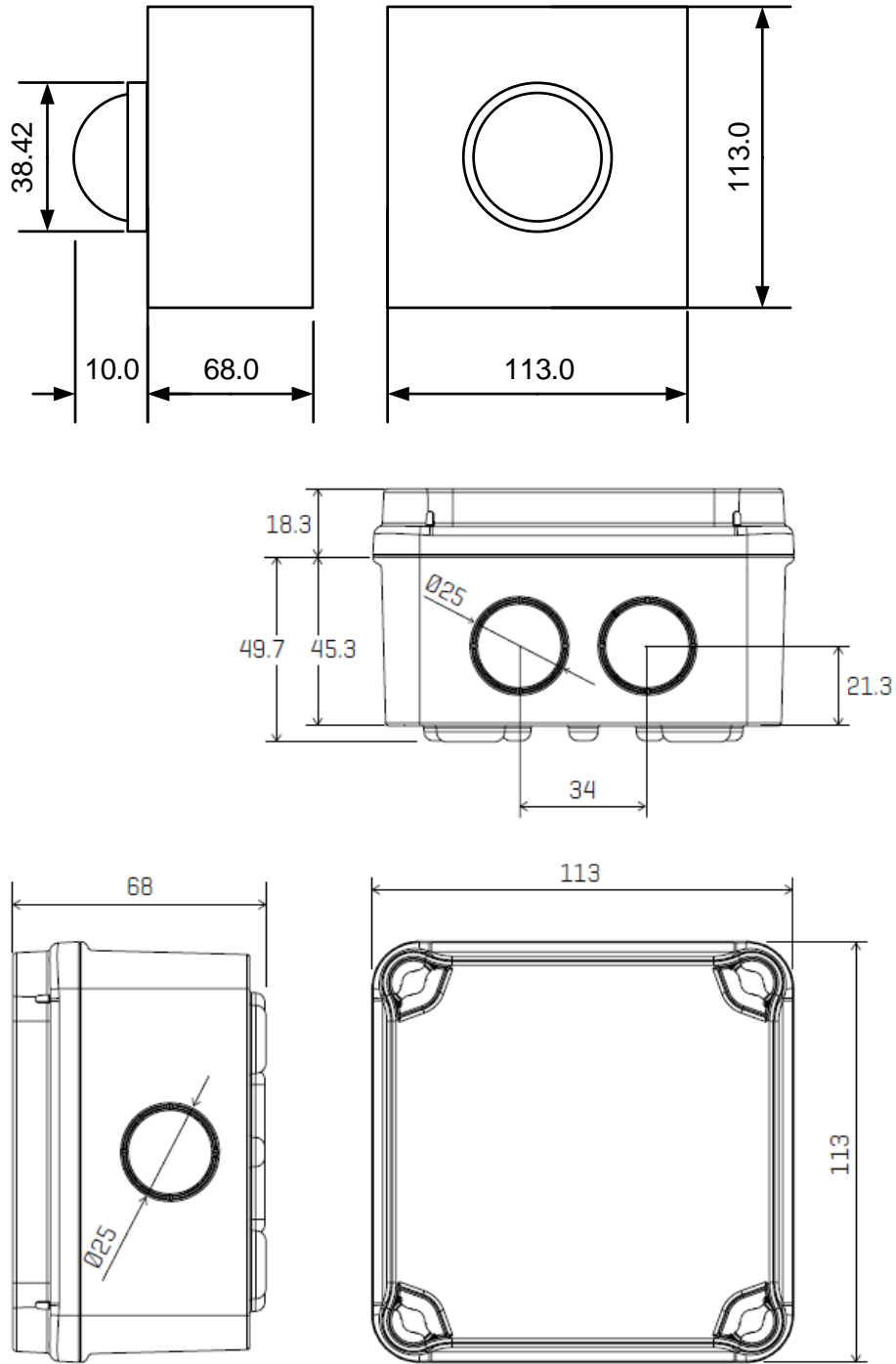
### DALI Standards and Compliance

IEC 62386-101  
 IEC 62386-102

### EC Council Directives

2014/35/EU Low Voltage  
 2014/30/EU Electromagnetic Compatibility (EMC)  
 2015/863 Restriction of Hazardous Substances (RoHS) in Electrical and Electronic Equipment

**Typical Detection Range****10 m mounting height****6 m mounting height****3 m mounting height**

**Product dimensions**

## Warranty

This product has a TWO YEAR warranty against manufacturing defects. The warranty applies from the date of purchase. The warranty does not cover product damage due to installation that allows entry of water into this sensor product.

Refer to [ozuno.com](http://ozuno.com) for the full conditions for warranty and returns process. A summary of the process:

1. Contact the seller of the goods, or in their absence contact Ozuno to request a return goods authorisation.
2. When a return is authorised, the goods must be returned to Ozuno at the owners expense for technical evaluation.
3. The warranty claim will be evaluated by Ozuno and accepted if the goods are found to be faulty, or rejected if the fault was caused by conditions beyond the responsibility of Ozuno. Considerations of installation, removal, return, freight and testing are not the responsibility of Ozuno.

The Australian Consumer Law requires the inclusion of the following statement with this Warranty:

***Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.***



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**DALI** and **DALI-2** are trademark of the Digital Illumination Interface Alliance.

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