TRANS

MRA-514 series

DALI-2 Occupancy & Light Sensor





















OVERVIEW

The MRA-514 series of IR-TEC's TRANS family is a DALI-2 certified Occupancy and Light sensor for Digital Addressable Lighting Interface (DALI) control. This DALI-2 Input Device employs a digital Passive Infrared (PIR) Sensor and a digital Ambient Light Sensor (ALS) to dynamically report local occupancy status and ambient luminance level for DALI Application Controller to execute smart lighting control.

Like all sensors with T5 housing in the family, the MRA-514 series can be recess or surface mounted on the ceiling with respective mounting bracket. If necessary, the sensor can also be directly integrated or attached with exclusive mounting bracket to an OEM luminaire. Interchangeable lens options allow the sensor to be mounted up to 15 meters high with distinctive detection coverage. Innovative modular design provides second-to-none application and installation flexibility.

The MRA-514 multi-sensor not only conform all electrical safety, EMC emission and immunity requirements, but also fully complies with IEC 62386 Parts 101, 103, 303, and 304 DALI standards.



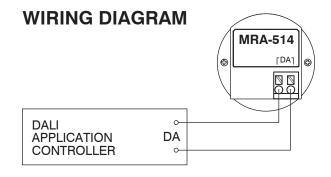
FEATURES

- Digital pyroelectric infrared and ambient light sensor
- Fully comply with IEC 62386 Parts 101, 103, 303, 304
- Low energy consumption over DALI bus power supply
- Multiple lens options offer second-to-none applications
- Ceiling recess, junction box or surface mount installation
- Directly integrated or externally attached with luminaire

APPLICATION

☑ DALI Lighting Control

The MRA-514 series DALI-2 Occupancy and Light Sensor can be used to report local occupancy status and ambient light level of corridor, private office, guestroom, function room, washroom, storage room, conference/meeting room, kitchen/dining room, toilet/washroom, warehouse...etc.







TRANS

MRA-514 series

DALI-2 Occupancy & Light Sensor

MOUNTING OPTIONS

The MRA-514SXx series can be recess or surface mounted on the ceiling, mounted into a junction box or attached to a luminaire. Multiple mounting options are available by combining a specific mounting bracket (if applicable) from the chart below. The bracket will be shipped with the sensor when ordered with the respective code. More details of mounting options are available from www.irtec.com

Code	Mounting Option	Mounting Bracket	
F	Fixture Integrated		
W	IP-66 Fixture Integrated		
E	Fixture External	EMB-500	
Р	IP-66 Fixture External	PMB-500	
S	Ceiling Surface	SMB-500	
С	Junction Box	CMB-500	
R	Ceiling Recess	RMB-500	

LENS OPTIONS

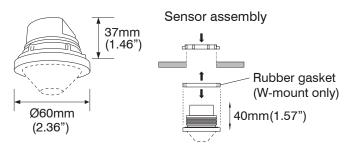
Following lens options are available for the MRA-514 series to provide distinctive coverage at different mounting heights (H). When order the sensor with specific lens code (MRA-514SxX), the lens will be shipped with the sensor. More details of mounting options are available from www.irtec.com

Lens		Shape	Mounting Height		Coverage
Α	Standard	Cone	8∼15 ft.	2.4~4.5m	2X height
В	Extra wide	Cone	8~10 ft.	2.4~3.0m	6X height
С	High bay	Cone	15~30 ft.	4.5~9.0m	3X height
D	Standard	Round	8~20 ft.	2.4~6.0m	2X height
F	Extra wide	Dome	8~20 ft.	2.4~6.0m	4X height
G	Aisle way	Arch	8∼40 ft.	2.4~12.0m	3X height
Н	High bay	Dome	30~50 ft.	9.0~15.0m	1X height
L	Long aisle	Arch	8∼10 ft.	2.4~3.0 m	6X height

SPECIFICATIONS

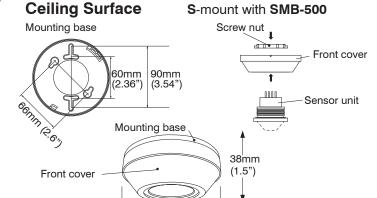
Device Type	DALI-2 input device		
GTIN	4711498310019		
Power supply	DALI bus power		
Power consumption	10 mA max		
Control output	Addressable/slave DALI		
Movement sensor	Digital passive infrared (PIR)		
Luminance sensor	Digital ALS		
Light level range	2-1000 lux @ mounting position		
Detectable speed	0.3~3 m/sec. (1~10 ft./sec.)		
Mounting height	2.4~15m, subject to the lens applied		
Detection range	Subject to the lens and mounting height		
DALI standards	IEC 62386 Parts 101, 103, 303, 304		
Op. humidity	Max. 95% RH		
Op. temperature	-40°C ~70°C (-40°F~158°F)		
Dimensions	60 Ø x 37mm H (sensor head only, no lens)		

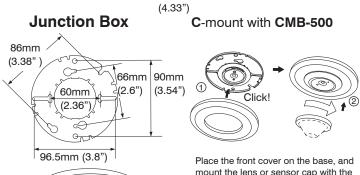
DIMENSIONS



Note: For IP-66 fixture integration, ensure the rubber gasket is placed in between the fixture enclosure and sensor unit.

Ceiling Recess R-mount with RMB-500 Front Cover Sensor unit Cut a 70mm (2.8") hole on Ø70mm the mounting (2.8")position





Ø110mm



mount the lens or sensor cap with the sensor.

