

MRA-734SZ

DALI-2 Occupancy & Light Sensor



OVERVIEW

The MRA-734SZ is a DALI-2 Occupancy and Light sensor compliant with IEC 62386 Part 101, 103, 303, 304, and 351 standards for Digital Addressable Lighting Interface (DALI) control. This DALI-2 sensor employs a digital Passive Infrared (PIR) sensor and a digital Ambient Light Sensor (ALS) to report local occupancy status and ambient luminance level as the Second node of Zhaga-D4i application.

Through an easy twist and lock connection with standard Zhaga Book 18 receptacle on the luminaire, the sensor can be quickly attached or removed for installation and service. Interchangeable lens options allow the sensor to be mounted up to 15 meter high and provide distinctive detection coverage. IP66 and IK08 protections allow the sensor to be used with outdoor luminaires for commercial/industrial applications. By integrating the MRA-734SZ to a D4i driver featuring AUX or bus power, an energy efficient smart outdoor lighting can be easily achieved.



*This product shown here is under development, is not DALI-2 certified, and is not available on the market. Engineering samples are available on request.

FEATURES

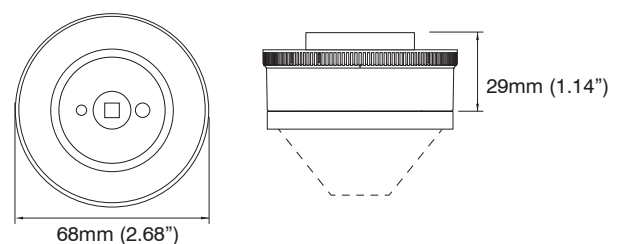
- Omni-directional digital pyroelectric infrared sensor
- Digital data control ALS for ambient light sensing
- Supports DALI drivers with AUX and bus powers
- Supports 4-pin Zhaga Book 18 edition 2 receptacle
- Multiple lens options selectable for different ranges
- IP66 and IK08 protections for outdoor applications
- IEC 62386 Parts 101, 103, 303, 304, 351 compliance

APPLICATION

☒ Zhaga D4i Lighting Control

The MRA-734SZ can be easily applied with outdoor luminaires to report local occupancy and ambient light level for parking lots, pedestrian areas, public parks, outdoor display and playgrounds.

DIMENSIONS



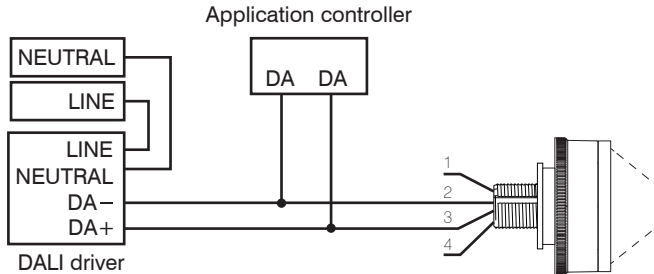
PRELIMINARY

MRA-734SZ

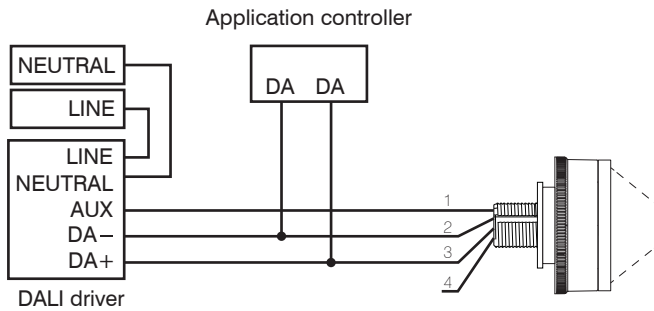
DALI-2 Occupancy & Light Sensor

WIRING DIAGRAM

DALI driver with DALI bus power



DALI driver with AUX power & DALI bus power



Pin definition

No.	Definition
1	AUX power (24VDC)
2*	DALI bus (DA-/common GND)
3*	DALI bus (DA+)
4	Not connected

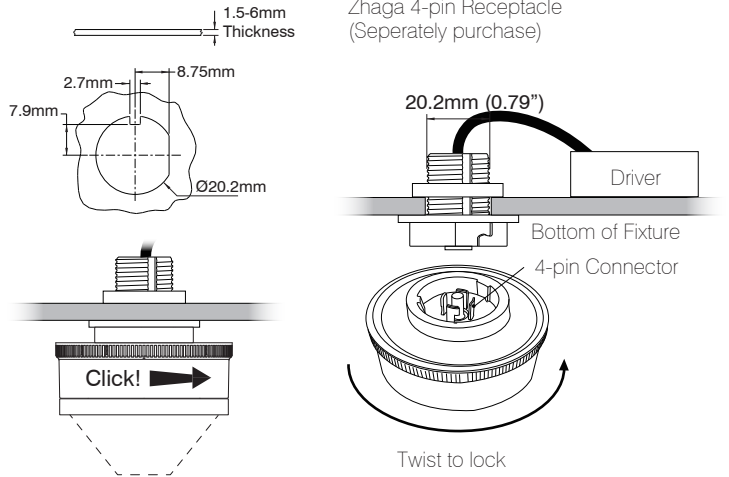
* Follow Zhaga Book 18.

LENS OPTIONS

The MRA-734SZ can be ordered and supplied with the following lens options to provide different coverage for different mounting heights (H).

	Lens	Shape	Mounting Height		Coverage
A	Standard	Cone	8~15 ft.	2.4~4.5m	2X height
B	Extra wide	Cone	8~10 ft.	2.4~3.0m	6X height
C	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
H	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

FIXTURE INTEGRATION



SPECIFICATIONS

LEX-M type	Type B w/o Application Controller
GTIN	4711498310033
Power supply	DC 24V AUX or DALI bus
Power consumption	10 mA max.
Movement sensor	Omni-directional digital pyroelectric (PIR)
Photo sensor	Digital ambient light sensor
Light level range	2-1000 lux
Detectable speed	0.3 ~ 3 m/sec.
Mounting height	Subject to the lens applied
Detection range	Subject to the lens type and mounting height
Protection level	IP-66 and IK-08 (with lens)
Op. humidity	Max. 95% RH
Op. temperature	-40°C~70°C (-40°F~158°F)
Dimensions	Ø68 x H29mm (Ø2.68"x H1.14")