

RadiaLED® Rapid Range

Installation instructions for RadiaLED® bulkhead body and LED module



WARNINGS AND CAUTIONS

- To avoid electric shock ⚠ or serious injury or property damage, isolate power before installing, removing or servicing the product
- It is recommended that this product is installed by an electrician or a competent person with sufficient experience to install this product
- To be installed in accordance with the local current wiring regulations and standards
- Any broken or damaged parts should be replaced as soon as possible

- JCC will not accept responsibility for claims arising from sub-standard installations; which will void the warranty
- Ensure that you have the tools and accessories required to complete the installation correctly
- The light source of this luminaire is not replaceable: when the light source reaches the end of its life the whole of the luminaire must be replaced
- This luminaire is suitable for indoor use or exterior use, wall or ceiling mounting
- Do not install in areas that are near to continual running water
- Do not carry out insulation tests with the LED module connected to the circuit

INSTALLATION INSTRUCTIONS

ENGLISH

Note: This instruction sheet is for installing the LED Bulkhead body and LED module -which are purchased separately- it requires the installer to connect the LED Module's wiring to the terminal block in the Bulkhead body in addition to the mains input wiring

Mains supply Input : 220-240V~ 50/60Hz Class 1/2 ⚡📦 Emergency versions are Class I and earth is required. Non-emergency versions are Class II.

- Isolate power supply.
- Ensure that the body is installed in the correct orientation if wall mounted as indicated by the "THIS WAY UP" arrow inside the body(see fig.1.)This will ensure that the LED module is suspended correctly below the body when installing.(See fig.6.)
- Mains input cable entry options are in the centre of the body(see fig.2.)or 4 conduit entry point options on the side of the body(see fig.3.), you will need to drill a Ø20mm hole and use the supplied grommet(s) to maintain the IP rating of the fitting. It is recommended to drill this from the back of the body.
- To secure the body to the mounting surface you will also need to drill pilot holes of Ø4-6mm to accommodate the fixing screws. There are two mounting options: 4 x direct to the mounting surface or by using the option for BESA mounting in the centre of the body. The counter sunk molded fixing points are around the outside edge of the interior of the body adjacent to four conduit side entry points (see fig.3.) and in the centre for BESA mounting(see fig.2.)
- Connect the mains input into the terminal block in the body(see fig.4.) Terminal block is loop-in /loop-out to allow for continuous wiring.(Insulation tests can be carried out at this point) then suspend the LED Module from the security strap support(see fig.6.)
- Once insulation tests are complete, connect the wires from the LED module to the corresponding mains wires on the opposite side of the terminal block marked "output to driver"
- For DALI/1-10V versions connect dimming controls to the dimming control input by removing the driver terminal cover and connect to either DA+/DA- for DALI or 1-10V connect to 1-10Vdc +/- then refit driver cover

Wattage	CCT	CRI:Ra	Lumens	LpcW
8W	4000K	84	760	95
12W*	4000K	84	1250	104
16W	4000K	84	1600	100
24W	4000K	84	2160	90

Standard operation mode	Battery charging operation mode (initial charge 24hrs)	Parasitic Power
8W	12W(8W+4W)	0.5W
12W	16W(12W+4W)	0.5W
16W	20W(16W+4W)	0.5W
24W	28W(24W+4W)	0.5W

* DALI/1-10V version lumen output -1070 Lumens

Fig.1.

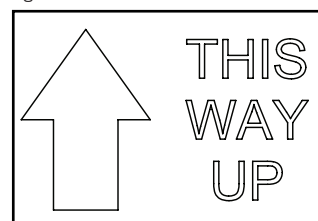


Fig.2.

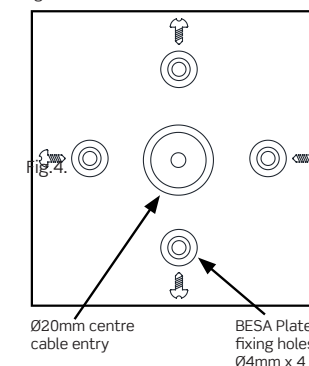
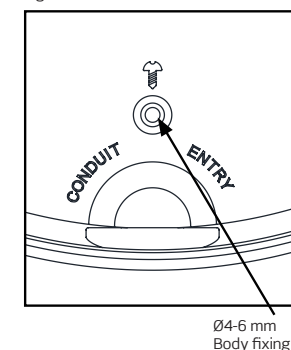


Fig.3.



MAINS INPUT

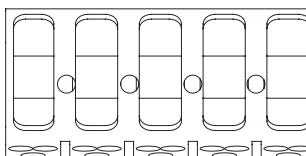
L¹ = Unswitched Live
L = Switched Live
 ⚡ = Earth
N = Neutral

OUTPUT TO LED DRIVER(MODULE)

L¹ = Unswitched Live
L = Switched Live
 ⚡ = Earth
N = Neutral

OUTPUT TO LED DRIVER(MODULE)

L¹ L ⚡ N



L¹ L ⚡ N
MAINS INPUT

Fig.5.

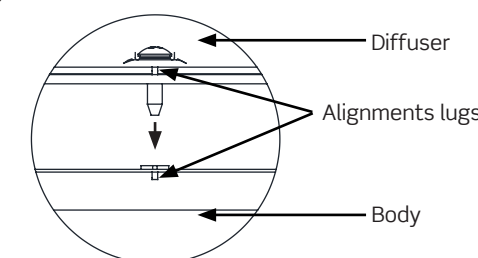
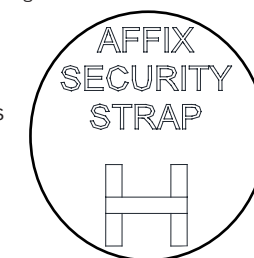



Fig.6.




- For emergency versions, connect the battery connector lead to the inverter
- Once you have completed all of the connections, fit LED tray into the body by aligning the 4 slots and press into place until clipped in.
- To fit the diffuser align the 4 captive screws in the diffuser with the holes in the body which have corresponding lugs for alignment(see fig.5.). Ensure that the screws are not over-tightened as this could damage the gasket and effect the IP rating.
- Turn on mains supply and test operation(allow 24hrs for the battery to charge before testing emergency operation)

Microwave Dimming operation and settings - 8W/12W/16W

Detection Area


		1	2	
	I	On	On	100%
	II	-	On	75%
	III	On	-	50%
	IV	-	-	10%

Hold Time

		3	4	
	I	On	On	5s
	II	-	On	90s
	III	On	-	3min
	IV	-	-	10min


Refers to the time period the lamp remains at 100% illumination after no motion is detected.

Daylight Sensor

		5	6	
	I	On	On	Disable
	II	-	On	50Lux
	III	On	-	15Lux
	IV	-	-	5Lux

The sensor can be set to only allow the lamp to illuminate below a defined ambient brightness threshold. When set to Disable mode, the daylight sensor will switch on the lamp when motion is detected regardless of ambient light level. 50lux: twilight operation, 15lux, 5lux: darkness operation only.

Corridor function_(Stand-by period)

		7	8	
	I	On	On	0s
	II	-	On	30s
	III	On	-	10min
	IV	-	-	+∞

Refers to the time period the lamp remains at a low light level before it completely switches off in the long absence of any occupancy. When set to "+∞", the low light is maintained until motion is detected -Step Dim Function. When set to "0s", the light will turn off after hold time.

Stand-by DIM Level


This is pre-set at 20% and not adjustable

Ø16m x 6m High max

Detection area can be reduced by selecting the combination on the DIP switches to fit precisely each application.

Microwave Dimming operation and settings - 24W


Detection Area

		1	
	I	On	100%
	II	-	50%

Ø16m x 6m High max

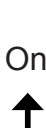
Detection area can be reduced by selecting the combination on the DIP switches to fit precisely each application.

Hold Time

		2	3	
	I	On	On	5s
	II	-	On	90s
	III	On	-	3min
	IV	-	-	10min

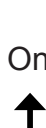
Refers to the time period the lamp remains at 100% illumination after no motion is detected.

Daylight Sensor

		4	5	
	I	On	On	Disable
	II	-	On	50Lux
	III	On	-	15Lux
	IV	-	-	5Lux


The sensor can be set to only allow the lamp to illuminate below a defined ambient brightness threshold. When set to Disable mode, the daylight sensor will switch on the lamp when motion is detected regardless of ambient light level. 50lux: twilight operation, 15lux, 5lux: darkness operation only.

Corridor function_(Stand-by period)

		6	7	
	I	On	On	0s
	II	-	On	30s
	III	On	-	10min
	IV	-	-	+∞

Refers to the time period the lamp remains at a low light level before it completely switches off in the long absence of any occupancy. When set to "+∞", the low light is maintained until motion is detected -Step Dim Function. When set to "0s", the light will turn off after hold time.

Stand-by DIM Level

		8	
	I	On	10%
	II	-	25%


This is the level of low light you would like to have after the hold time in the with the absence of any occupation.

Photocell operation and settings

When ambient light level is below the “On” lux level selected, the sensor automatically switches on the luminaire at 100% brightness.

When ambient light level is higher than the “Off” lux level selected, the sensor automatically switches off the luminaire.


When set to disable, the sensor does not work.

On ↑ 		1	2	3	4	On@	Off@
	I	On	On	On	On	5Lux	25Lux
	II	On	On	On	-	10Lux	50Lux
	III	On	On	-	On	25Lux	75Lux
	IV	On	On	-	-	50Lux	100Lux
	V	On	-	On	-	100Lux	200Lux
	VI	On	-	-	-	150Lux	300Lux
	VII	-	On	-	-	200Lux	400Lux
	VIII	-	-	-	-	Disable	


Microwave on/off operation and settings

Detection Area

I: Up to 8m
II: Up to 6m
III: Up to 4m
VI: Up to 2m

On ↑ 		1	2	
	I	On	On	100%
	II	On	-	75%
	III	-	On	50%
	IV	-	-	25%


Hold Time

On ↑ 		3	4	5	
	I	On	On	On	5s
	II	On	On	-	30s
	III	On	-	On	1min
	IV	On	-	-	3min
	V	-	On	On	5min
	VI	-	On	-	10min
	VII	-	-	On	20min
	VIII	-	-	-	30min

Refers to the time period the lamp remains at 100% illumination after no motion detected.

Daylight Sensor

I: 2lux
(darkness operation only)
II: 10lux
(Darkness operation only)
III: 25lux
(twilight operation)
IV: 50lux
(twilight operation only)
V: Disable*
(darkness operation only)

On ↑ 		6	7	8	
	I	On	On	On	2Lux
	II	On	On	-	10Lux
	III	-	On	-	25Lux
	IV	On	-	-	50Lux
	V	-	-	-	Disable

*When set to Disable mode, the daylight sensor will switch on the lamp when motion is detected regardless of ambient light levels.

