

Pierlite Australia pierlite.com.au

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pierlite.co.nz

INSTALLATION / WARRANTY INSTRUCTIONS

Vandalux LED with Lumen Select - 4FT 4000K



PLEASE READ THESE INSTALLATION INSTRUCTIONS CAREFULLY BEFORE INSTALLING OR MAINTAINING THIS EQUIPMENT. THE PRODUCT IS DESIGNED FOR INSTALLATION AND MAINTENANCE IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS (AS/NZ3000), THESE INSTRUCTIONS AND LOCAL REGULATIONS (WHERE APPLICABLE), BY AN AUTHORISED AND LICENCED ELECTRICIAN. THE INSTALLATION INSTRUCTIONS WERE CORRECT AT THE TIME OF PRINT. TO REFLECT CHANGES IN TECHNOLOGY AND AUSTRALIAN STANDARDS; PIERLITE RESERVES THE RIGHT TO AMEND THE INSTRUCTIONS WITHOUT NOTICE, UPDATED GUIDELINES CAN BE FOUND ON RELEVANT BRAND WEB SITE.

IMPORTANT - THE PRODUCT MUST BE MAINTAINED AND OPERATED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS, FAILURE TO DO SO MAY DAMAGE THE PRODUCT AND SERVICES. IT IS STRONGLY RECOMMENDED THAT THIS IMPORTANT NOTE BE COMMUNICATED TO THE OWNER AND OR OPERATOR OF THE INSTALLATION AT THE TIME OF SITE COMMISSIONING. GOOD PRACTICE DOES NOT RECOMMEND THE 24/7 USE OF PRODUCTS WITHOUT THE APPLICATION OF SUITABLE SWITCH CYCLE INTERVALS. PIERLITE IS NOT RESPONSIBLE FOR ANY PRODUCT NOT MAINTAINED IN ACCORDANCE WITH THE RECOMMENDED PROCEDURES. ALL PRODUCTS SHOULD BE THOROUGHLY CLEANED ON A REGULAR BASIS TO ENSURE THE OPTICAL PERFORMANCE, TOGETHER WITH THE ELECTRICAL. MECHANICAL AND STRUCTURAL INTEGRITY AS DESIGNED. IS MAINTAINED THROUGHOUT THE SERVICE LIFE OF THE PRODUCT.



























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1. PRODUCT SPECIFICATION:

Type of protection
IP rating
IK rating
Nominal voltage
Nominal frequency
Number of wattages per fitting
Available wattages
Power factor
Surge protection rating

Inrush current

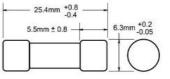
Earth leakage
Rated operating ambient temperature
LED lifetime (L70) rated
Colour temperature
Colour rendering index (CRI)
LED control gear
Available in emergency
Emergency battery technology
Electrical connection
Cable entry
Installation orientation
Dimensions (LXWXH)
Net weight to fluminaire

IP66 IK10 240V 50 Hz Refer to section 13 Lumen Select >0.8 to >9 (8/20us): L-N 6KA, L-E: 4KA, N-E: 4KA Maximum impulse voltage, 10KV (where installed) Cold start 10A(twidth=46us measured at 50% Ipeak) at 230VAC 0.4mA 0 to +50°C (63W@45°C) >60,000 hours 4000K 80 DALI Yes, DALI and self testing 2-hour Lithium Iron Phosphate (LiFePO4) Direct to 6.0mm2 terminal block 2x 20mm Vertical or horizontal Refer to table in section 6 Refer to table in section 6

Class I luminaire

2. CONSUMABLES

Description	QTY Required Per Fitting	Brand	Component Part Number	Dimensions (LxWxH) mm
2 amp fuse	1	Cooper Bussmann	TDC180-2A	25.4x6.3x6.3
2 hour Lithium Iron	1	Pierlite	DGLCEM3200/1L11	80x70x28
Phosphate (LiFePO4)	1	Tienice	DGLCEM3200/2L12	0007 0020



3. LUMEN SELECT METHODOLOGY

Fitting Type	Diffuser	Wattage	Fitting Size	Control gear	Colour Temperature	Emergency	Rail Spec	Sensor
VX = Vandalux	O = Opal	LS = Multi Wattage - Factory default = 53W	4 = 4 foot (1310mm)	D= DALI	4 = 4000K	M2 = Maintained 2hr	PB = Rail Spec	H = High Frequency Microwave Sensor *

8. APPROVALS: The RCM marking of this product applies to AS/NZS CISPR15 (EMC) "Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment". This product is designed to conform to AS/NZS60598 "Luminaires, general requirements and tests".

* DALI Broadcast sensor (No addressing)

- 9. STORAGE: Prior to installation products are to be stored in cool and dry conditions.
- 11. APPLICATION: The installation application and orientation of the product is designed in accordance with the nominated product IP rating, class designation and these installation installations. Installation environments outside these conditions are not recommended.

15. Service & Operation (Emergency Version)

Normal Operation: Maintained Emergency Operation.

Battery: Sealed Lithium Iron Phosphate (LiFePO4) rechargeable battery pack. As per AS/NZS 2293, it is required that the battery pack is discharged and recharged at least once every 6 months.

In case of a replacement, same brand and type of battery pack must be used. Allow 24 hours charging time before carrying out any discharge tests.

Charge Duration: 16 Hours

Discharge Duration: 2 Hours (Initial Test)

Test Switch: If manual test switch pressed, the fixture will operate from its battery supply. Please ensure battery plug is connected to the inverter battery terminal.

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4. ELECTRICAL CHARACTERISTICS

SKU to Order	Selectable Wattages by Dip Switches (W)	Line Current (A)	Power Factor	Colour Temperature	Emergency	Rail Spec	Factory Default Setting
	63	0.274	0.95		No	No	
	53	0.232	0.94		No	No	Yes
VXOLS4D4	37	0.173	0.88		No	No	
VOXLS4D4H	30	0.153	0.83		No	No	
	22	0.112	0.82		No	No	
	68	0.3	0.95		Yes	No	
	57	0.25	0.94		Yes	No	Yes
VXOLS4D4M2 &	42	0.2	0.88		Yes	No	
VOXLS4D4HM2	35	0.18	0.83		Yes	No	
	26	0.13	0.82		Yes	No	
	63	0.274	0.95	4K	No	Yes	
	53	0.232	0.94		No	Yes	Yes
VXOLS4D4PB	37	0.173	0.88		No	Yes	
	30.3	0.153	0.83		No	Yes	
	22	0.112	0.82		No	Yes	
	68	0.3	0.95		Yes	Yes	
	57	0.25	0.94		Yes	Yes	Yes
VXOLS4D4M2PB	42	0.2	0.88		Yes	Yes	
	35	0.18	0.83		Yes	Yes	
	26	0.13	0.82		Yes	Yes	

5. DALI CONTROL GEAR: The LED driver and emergency control gear are both controllable through the DALI RAPIX system. A DALI connection is not required in a non-systemized electrical system, if DALI is not required do not connect it.

Note: when designing the DALI system please refer to the table below for the number of DALI addresses.

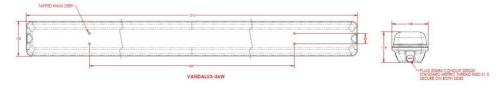
Control gear	Function	Number of Addresses	RAPIX Ready
LED Driver	Dimming, on/off & feedback	1	YES
Emergency Inverter	Testing & Reporting	1	YES

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6. LINE DIAGRAMS AND DIMENSIONS

Fitting Size	Length in mm	Width in mm	Height in mm	Weight in Kg
4 foot	1310	138	114	8



7. OPTIONAL MOUNTING TYPE

Fitting Size	Mounting Bracket/ Accessory	Part Number	Manufactured From	Modification to body	Drawings
	Horizontal Wall Mounting Bracket KIT	C29VANDALUX (Double Bracket)	Cast	Drill holes where indents are internally provided	
	Catenary Wire Kit To Suit 7mm Wire	C31VANDALUX	Aluminum	Nil, threaded holes have been provided	
	Universal Bracket	C35VANDALUX	Aluminum	Nil, threaded holes have been provided	
4 foot	Ceiling Mount Bracket	C36VANDALUX	Aluminum	Nil, threaded holes have been provided	
	Pipe Clamp	PMB32/VAN	This is Stainless	Nil, threaded holes have	₩
	Bracket	PMB40/VAN	steel only.	been provided	
	Wire Suspension Bracket	C37VANDALUX	Aluminum	Nil, threaded holes have been provided	

12. INSTALLATION / GENERAL: Installation of the product is to be completed by an authorized and licensed electrician, in accordance with these instructions, relevant Australia standards and local regulations (where applicable). Termination of product wiring, together with the installation of the product must be in a manner that maintains the integrity of the designated IP rating of the product for electronic control equipment (when supplied) DO NOT MEGGER between A and N.

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13. LUMEN SELECT (contractor selectable output)

Pierlite's lumen select products allows all licensed electricians to purchase one luminaire that can be set as multiple fixed wattages/fixed lumen outputs. By offering this capability within one fitting it provides the following benefits

- One fitting multiple fixed outputs
- Less stocked items
- One fitting on the shelf or in the van
- Variable onsite options
- Easy to change settings
- IES files available for all available for wattages shown in the below table
- No control system or software required to change fixed output

The Vandalux luminaire and retrofit kit has been factory set to 55W/6153lm, if a different wattage/lumen output is required the licensed electrician can easily change the driver dip switches to the settings shown in the below table.

System Wattage (W)	Driver Settings (mA)	Lumen Output (lm)	Driver Dip Switch Settings
63	1400	7121	5 4 3 2 1 ON ALCOADE05
53W (factory default setting)	1150	6153	5 4 3 2 1 ON ALCOADE05
37	850	4576	5 4 3 2 1 ON ALCOADE05
30	700	3837	5 4 3 2 1 ON ALCOADE05
22	500	2812	5 4 3 2 1 ON ALCOADE05

14. INSTALLATION / GENERAL: Installation of the product is to be completed by an authorized and licensed electrician, in accordance with these instructions, relevant Australia standards and local regulations (where applicable). Termination of product wiring, together with the installation of the product must be in a manner and orientation that maintains the integrity of the designated IP rating of the product for electronic control equipment (when supplied) DO NOT MEGGER between A and N.

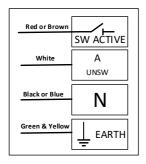
Installation:

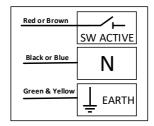
Ensure the appropriate bracket has been ordered for your installation type. Refer to the bracket installation instructions for further information.

- a) Isolate the supply circuit as per the Australian standard and your SWMS.
- b) Remove both the diffuser and the gear tray using a 5mm hex head and place in a safe location to ensure the product does not get damaged while the housing is being installed.
- c) Install the housing with the selected bracket system.
- d) Suspend the gear tray from the lanyards
- e) Connect the supply wires to the supplied 6mm² terminal block. Ensure sure all connections and cabling complies to AS3000.
 Note:
 Ensure the correct wires go to the correct terminals as per below

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Emergency & Mains Wiring Connections

Mains Only Wiring connections

- Select the wattage/lumen output by changing the dip switches on the LED driver, please refer to section 12 of this installation sheet.
 Note: 55W/6153Im is the factory default for this fitting.
- q) Secure the gear tray to the luminaire body ensuring all cables a clear from pinching or possible damage.
- h) Tighten the screws securing the gear tray to a maximum of 4Nm
- Installation of the diffuser, lightly screw the supplied hex head screws into the 6 holes around the diffuser. Place diffuser to the body and tighten screws to a maximum of 4Nm.
- j) Ensure the IP rating of the installation is equal to that of the tested IP rating of the fitting. Note: the IP rating of the fitting is IP66.
- k) Test fitting as per the relevant Australian standard and as per your SWMS.

16. MAINTENANCE:

(a) The supply must be isolated before opening or accessing the luminaire. Product maintenance is IMPORTANT and is critical to the products designed performance. The product is to be maintained in accordance with the manufacturer's instructions. For the latest product maintenance guides please go to relevant brand web site. Pierlite is not responsible for any product not maintained in accordance with the recommended procedure or intervals.

(b) Lamps (where provided): The product is designed with the supplied (LEDs) / LAMP/s and it is strongly recommended that any LAMP / (LEDs) changes (if any) be made in accordance with the type, colour and brand supplied. For recommended LAMP / LED maintenance or operating guides (inclusive of recommended product switch cycles and mandatory run-in procedures for HID and Fluorescent lamps when used with dimming circuits), Pierlite recommends the application of the lamp manufacturer's operating guidelines, which can be found on manufacturer's website. Pierlite is not responsible for the product performance of alternative lamp/s used. As a member of FluroCycle, we encourage recycling of lamps and components.

(c) Battery (where provided): The battery is designed with a rated average battery design life of 50,000 hrs. in standby mode. The battery is supported with a standard Four (4) year warranty; conditional of the product being maintained and operated in accordance with the manufacturer's guidelines and tested in accordance with AS/NZS2293. For guidelines see product installation instructions or visit the relevant brand web site.

(d) For products supplied with glass visors or covers, do not operate the product with a damaged visor or cover; it is recommended the product be turned off, area surrounding the product vacated and the damaged glass replaced by a professional installer immediately.

17. WARRANTY INSTRUCTIONS: For the purpose of warranty claims (if any) the following instructions apply:

Warranty period - The above components are provided with a warranty of <u>Five (5) years</u> against manufacturing defects or failure to perform to specifications for products installed by an authorised installer in accordance with the manufacturer's installation instructions and which have not been subject to incorrect operation or maintenance, unauthorised modification or damage arising from any intervening cause.

Warranty reference - The warranty reference date commences from the date of purchase.

Warranty point of contact – Pierlite Pty Ltd, 96 Gow Street Padstow NSW 2211, phone T 1300 799 300 contact – Pierlite After Sales Support.

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Warranty claim procedure - For the purpose of making a claim the customer must:

1. Contact the "point of contact" above and upon provision of proof of purchase the customer will receive a goods return advice (GRA) number. 2. At the customer's expense, collect and return the goods to the "point of contact" with the issued GRA number. 3. Upon receipt of the goods, Plerilte will review the claim and if found to be accepted, Plerilte will return a replacement product to the customer to install at the customer's expense. Alternatively, if the claim is rejected, the customer may request the return of the goods at their expense. Consumer Contracts - The benefits to the customer given by the Plerilte warranty are in addition to other rights and remedies of the customer if the goods are the subject of a Consumer Contract under the Australian Consumer Law. In that event the following statement is required to be brought to the Consumer's attention: - 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. Limitation of Liability – if the goods are not purchased by the customer under a Consumer Contract within the Australian Consumer Law then but not otherwise; - (a) the Company is not liable in tort for any loss or damage suffered by the customer or by any third party; and (b) in no circumstances is Pierlite liable to the customer or to any third party for any loss of anticipated savings, economic loss or interruption of business or for any indirect or consequential loss.)

Terms of Sale – these Warranty provisions are in substitution for any inconsistent provisions in the Pierlite Terms and Conditions of Sale in so far as they apply to the Warranty components.

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Issue Date: 03-06-2020

INSTALLATION / WARRANTY INSTRUCTIONS

Vandalux LED with Lumen Select - 2FT 4000K



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1. PRODUCT SPECIFICATION:

Type of protection
IP rating
IK rating
Nominal voltage
Nominal frequency
Number of wattages per fitting
Available wattages
Power factor
Surge protection rating

Inrush current

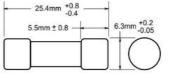
Earth leakage
Rated operating ambient temperature
LED lifetime (L70) rated
Colour temperature
Colour rendering index (CRI)
LED control gear
Available in emergency
Emergency battery technology
Electrical connection
Cable entry
Installation orientation
Dimensions (LXWXH)
Net weight of luminaire

IP66 IK10 240V 50 Hz Refer to section 13 Lumen Select >0.8 to >9 (8/20us): L-N 6KA, L-E: 4KA, N-E: 4KA Maximum impulse voltage, 10KV (where installed) Cold start 10A(twidth=46µs measured at 50% Ipeak) at 230VAC 0.4mA 0 to +50°C - (33W@45°C) >60,000 hours 4000K 80 DALI Yes, DALI and self testing 2-hour Lithium Iron Phosphate (LiFePO4) Direct to 6.0mm2 terminal block 2x 20mm Vertical or horizontal Refer to table in section 6 Refer to table in section 6

Class I luminaire

2. CONSUMABLES

Description	QTY Required Per Fitting	Brand	Component Part Number	Dimensions (LxWxH) mm
2 amp fuse	1	Cooper Bussmann	TDC180-2A	25.4x6.3x6.3
2 hour Lithium Iron Phosphate (LiFePO4)	1	Pierlite	DGLCEM3200/1L11 DGLCEM3200/2L12	80x70x28



3. LUMEN SELECT METHODOLOGY

Fitting Type	Diffuser	Wattage	Fitting Size	Control gear	Colour Temperature	Emergency	Rail Spec
VX = Vandalux	O = Opal	LS = Multi Wattage - Factory default = 55W	2 = 2 foot (600mm)	D= DALI	4 = 4000K	M2 = Maintained 2hr	PB = Rail Spec

- 8. APPROVALS: The RCM marking of this product applies to AS/NZS CISPR15 (EMC) "Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment". This product is designed to conform to AS/NZS60598 "Luminaires, general requirements and tests".
- 9. STORAGE: Prior to installation products are to be stored in cool and dry conditions.
- 11. APPLICATION: The installation application and orientation of the product is designed in accordance with the nominated product IP rating, class designation and these installation installations. Installation environments outside these conditions are not recommended.

15. Service & Operation (Emergency Version)

Normal Operation: Maintained Emergency Operation.

Battery: Sealed Lithium Iron Phosphate (LiFePO4) rechargeable battery pack. As per AS/NZS 2293, it is required that the battery pack is discharged and recharged at least once every 6 months.

In case of a replacement, same brand and type of battery pack must be used. Allow 24 hours charging time before carrying out any discharge tests.

Charge Duration: 16 Hours

Discharge Duration: 2 Hours (Initial Test)

Test Switch: If manual test switch pressed, the fixture will operate from its battery supply. Please ensure battery plug is connected to the inverter battery terminal.

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4. ELECTRICAL CHARACTERISTICS

SKU to Order	Selectable Wattages by Dip Switches (W)	Line Current (A)	Power Factor	Colour Temperature	Emergency	Rail Spec	Factory Default Setting
	33	0.15	0.95		No	No	
) WAS 1 50 D 4	28	0.14	0.94		No	No	Yes
VXOLS2D4 & VOXLS4D4H	20	0.1	0.88		No	No	
	16	0.086	0.83		No	No	
	36	0.18	0.95		Yes	No	
\ \(\text{V(0) GDD 4442}	31	0.16	0.94		Yes	No	Yes
VXOLS2D4M2 & VOXLS4D4HM2	23	0.12	0.88		Yes	No	
	20	0.11	0.83		Yes	No	
	33	0.15	0.95	4	No	Yes	
10/01/020 400	28	0.14	0.94		No	Yes	Yes
VXOLS2D4PB	20	0.1	0.88		No	Yes	
	16	0.086	0.83		No	Yes	
	36	0.18	0.95		Yes	Yes	
10/01 C2D 4M222	31	0.16	0.94		Yes	Yes	Yes
VXOLS2D4M2PB	23	0.12	0.88		Yes	Yes	
	20	0.11	0.83		Yes	Yes	

5. DALI CONTROL GEAR: The LED driver and emergency control gear are both controllable through the DALI RAPIX system. A DALI connection is not required in a non-systemized electrical system, if DALI is not required do not connect it.

Note: when designing the DALI system please refer to the table below for the number of DALI addresses.

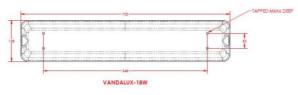
Control gear	Function	Number of Addresses	RAPIX Ready
LED Driver	Dimming, on/off & feedback	1	YES
Emergency Inverter	Testing & Reporting	1	YES

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6. LINE DIAGRAMS AND DIMENSIONS

Fitting Size	Length in mm	Width in mm	Height in mm	Weight in Kg
2 foot	700	138	114	4





7. OPTIONAL MOUNTING TYPE

Fitting Size	Mounting Bracket/ Accessory	Part Number	Manufactured From	Modification to body	Drawings
	Horizontal Wall Mounting Bracket Kit	C28VANDALUX (Double Bracket)	Cast aluminum	Drill holes where indents are internally provided	
	Catenary Wire Kit To Suit 7mm Wire	C31VANDALUX	Aluminum	Nil, threaded holes have been provided	
	32mm Spigot Attachment	C32VANDALUX	Cast aluminum	Nil, threaded holes have been provided	
2 foot	Universal Bracket	C35VANDALUX	Aluminum	Nil, threaded holes have been provided	
	Ceiling Mount Bracket	C36VANDALUX	Aluminum	Nil, threaded holes have been provided	
	Pipe Clamp Bracket	PMB32/VAN	This is Stainless steel only.	Nil, threaded holes have been provided	**
		PMB40/VAN			
	Wire Suspension Bracket	C37VANDALUX	Aluminum	Nil, threaded holes have been provided	

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12. INSTALLATION / GENERAL: Installation of the product is to be completed by an authorized and licensed electrician, in accordance with these instructions, relevant Australia standards and local regulations (where applicable). Termination of product wiring, together with the installation of the product must be in a manner that maintains the integrity of the designated IP rating of the product for electronic control equipment (when supplied) DO NOT MEGGER between A and N.

13. LUMEN SELECT (contractor selectable output)

Pierlite's lumen select products allows all licensed electricians to purchase one luminaire that can be set as multiple fixed wattages/fixed lumen outputs. By offering this capability within one fitting it provides the following benefits

- One fitting multiple fixed outputs
- Less stocked items
- One fitting on the shelf or in the van
- Variable onsite options
- Easy to change settings
- IES files available for all available for wattages shown in the below table
- No control system or software required to change fixed output

The Vandalux luminaire and retrofit kit has been factory set to 28W/3351lm, if a different wattage/lumen output is required the licensed electrician can easily change the driver dip switches to the settings shown in the below table.

System Wattage (W)	Driver Settings (mA)	Lumen Output (lm)	Driver Dip Switch Settings
33	1400	3861	5 4 3 2 1 ON ALCOADE05
28W (factory default setting)	1150	3351	5 4 3 2 1 ON ALCOADE05
20	850	2510	5 4 3 2 1 ON ALCOADE05
16	700	2114	5 4 3 2 1 ON ALCOADE05

14. INSTALLATION / GENERAL: Installation of the product is to be completed by an authorized and licensed electrician, in accordance with these instructions, relevant Australia standards and local regulations (where applicable). Termination of product wiring, together with the installation of the product must be in a manner and orientation that maintains the integrity of the designated IP rating of the product for electronic control equipment (when supplied) DO NOT MEGGER between A and N.

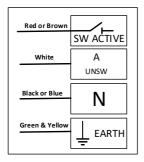
Installation:

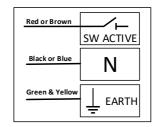
Ensure the appropriate bracket has been ordered for your installation type. Refer to the bracket installation instructions for further information.

- a) Isolate the supply circuit as per the Australian standard and your SWMS.
- b) Remove both the diffuser and the gear tray using a 5mm hex head and place in a safe location to ensure the product does not get damaged while the housing is being installed.
- c) Install the housing with the selected bracket system.
- d) Suspend the gear tray from the lanyards
- e) Connect the supply wires to the supplied 6mm² terminal block. Ensure sure all connections and cabling complies to AS3000.
 Note: Ensure the correct wires go to the correct terminals as per below

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Emergency & Mains Wiring Connections

Mains Only Wiring connections

- f) Select the wattage/lumen output by changing the dip switches on the LED driver, please refer to section 12 of this installation sheet. Note: 28W/3351lm is the factory default for this fitting.
- Secure the gear tray to the luminaire body ensuring all cables a clear from pinching or possible damage. q)
- h) Tighten the screws securing the gear tray to a maximum of 4Nm
- i) Installation of the diffuser, lightly screw the supplied hex head screws into the 6 holes around the diffuser. Place diffuser to the body and tighten screws to a maximum of 4Nm.
- j) Ensure the IP rating of the installation is equal to that of the tested IP rating of the fitting. Note: the IP rating of the fitting is IP66.
- k) Test fitting as per the relevant Australian standard and as per your SWMS.

(a) The supply must be isolated before opening or accessing the luminaire. Product maintenance is IMPORTANT and is critical to the products designed performance. The product is to be maintained in accordance with the manufacturer's instructions. For the latest product maintenance guides please go to relevant brand web site. Pierlite is not responsible for any product not maintained in accordance with the recommended procedure or intervals.

(b) Lamps (where provided): The product is designed with the supplied (LEDs) / LAMP/s and it is strongly recommended that any LAMP / (LEDs) changes (if any) be made in accordance with the type, colour and brand supplied. For recommended LAMP / LED maintenance or operating guides (inclusive of recommended product switch cycles and mandatory run-in procedures for HID and Fluorescent lamps when used with dimming circuits), Pierlite recommends the application of the lamp manufacturer's operating guidelines, which can be found on manufacturer's website.

Pierlite is not responsible for the product performance of alternative lamp/s used. As a member of FluroCycle, we encourage recycling of lamps and components

(c) Battery (where provided): The battery is designed with a rated average battery design life of 50,000 hrs. in standby mode. The battery is supported with a standard Four (4) year warranty; conditional of the product being maintained and operated in accordance with the manufacturer's guidelines and tested in accordance with AS/NZS2293. For guidelines see product installation instructions or visit the relevant brand web site.

(d) For products supplied with glass visors or covers, do not operate the product with a damaged visor or cover; it is recommended the product be turned off, area surrounding the product vacated and the damaged glass replaced by a professional installer immediately.

17. WARRANTY INSTRUCTIONS: For the purpose of warranty claims (if any) the following instructions apply:

Warranty period - The above components are provided with a warranty of Five (5) years against manufacturing defects or failure to perform to specifications for products installed by an authorised installer in accordance with the manufacturer's installation instructions and which have not been subject to incorrect operation or maintenance, unauthorised modification or damage arising from any intervening cause.

Warranty reference - The warranty reference date commences from the date of purchase.

Warranty point of contact – Pierlite Pty Ltd, 96 Gow Street Padstow NSW 2211, phone T 1300 799 300 contact – Pierlite After Sales Support.

Warranty claim procedure - For the purpose of making a claim the customer must:

1. Contact the "point of contact" above and upon provision of proof of purchase the customer will receive a goods return advice (GRA) number. 2. At the customer's expense, collect and return the goods to the "point of contact" with the issued GRA number. 3. Upon receipt of the goods, Pierlite will review the claim and if found to be accepted, Pierlite will return a replacement product to the customer to install at the customer's expense. Alternatively, if the claim is rejected, the customer may request the return of the goods at their expense. Consumer Contracts - The benefits to the customer given by the Pierlite warranty are in addition to other rights and remedies of the customer if the goods are the subject of a Consumer Contract under the Australian Consumer Law. In that event the following statement is required to be brought to the Consumer's attention: - 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. Limitation of Liability - if the goods are not purchased by the customer under a Consumer Contract within the Australian Consumer Law then but not otherwise;- (a) the Company is not liable in tort for any loss or damage suffered by the customer or by any third party; and (b) in no circumstances is Pierlite liable to the customer or to any third party for any loss of profits, loss of anticipated savings, economic loss or interruption of business or for any indirect or consequential loss (Consequential Loss).

Terms of Sale - these Warranty provisions are in substitution for any inconsistent provisions in the Pierlite Terms and Conditions of Sale in so far as they apply to the Warranty components.

PAGE 6 99035038 Vandalux 2ft Lumen Select

Detached Motion Sensor with Bluetooth 5.0 SIG Mesh

HCD038/BT DALI Output



Product Description

HCD038/BT is a Bluetooth DALI control base with 30mA DALI power supply built in. They work with a wide range of microwave and PIR sensor heads. They are ideal for plastic luminaires as compared to metal luminaires because Bluetooth signal can transmit through plastic. They are suitable for any typical indoor applications such as office, classroom, car park, warehouse and other commercial/industrial areas. With Bluetooth wireless mesh networking, it makes communication much easier without any hardwiring, which eventually adds values to luminaires and saves costs for projects. Meanwhile, simple device setup and commissioning can be done via app.



App Features

G Quick setup mode & advanced setup mode

Tri-level control

Daylight harvest

Circadian rhythm (Human centric lighting)

厧 Floorplan feature to simplify project planning

Web app/platform for dedicated project management

Koolmesh Pro iPad version for on-site configuration

Grouping luminaires via mesh network

Scenes Scenes

Detailed motion sensor settings

Dusk/Dawn photocell (Twilight function)

Push switch configuration

Schedule to run scenes based on time and date

Astro timer (sunrise and sunset)

Staircase function (master & slave)

Internet-of-Things (IoT) featured

 $oldsymbol{oldsymbol{eta}}$ Device firmware update over-the-air (OTA)

Device social relations check

■ Bulk commissioning (copy and paste settings)

 $\{$ Dynamic daylight harvest auto-adaptation

Power-on status (memory against power loss)

Offline commissioning

P Different permission levels via authority management

Network sharing via QR code or keycode

Remote control via gateway support HBGW01

(a) Interoperability with Hytronik Bluetooth product portfolio

Compatible with EnOcean switch EWSSB/EWSDB

Continuous development in progress...

Hardware Features

HCD038/BT: 30mA DALI broadcast output for up to 15 LED drivers

Plug'n'Play for flexible installation and cost saving assemble

Support to control DT8 LED drivers (HCD038/BT)

2 Push inputs for flexible manual control(HCD038/BT)

Zero crossing detection circuit to reduce in-rush current and prolong relay lifetime (HC038V/BT)

Loop-in and loop-out terminals for efficient installation (HCO38V/BT only)

5 year warranty





EnOcean
Self-powered IoT

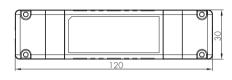
Fully support EnOcean switch EWSSB/EWSDB

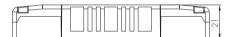
Technical Specifications (HCD038/BT)

Bluetooth Transceiver			
Operation frequency	2.4 GHz - 2.483 GHz		
Transmission power	4 dBm		
Range (Typical indoor)	10~30m		
Protocol	₿Bluetooth ® 5.0 SIG Mesh		
Safety & EMC			
Safety & EMC			
Safety & EMC EMC standard (EMC)	EN55015, EN61000, EN61547		
,	EN55015, EN61000, EN61547 EN60669-1, EN60669-2-1		
EMC standard (EMC)	, , ,		

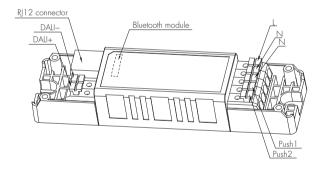
Input & Output Characteristics			
Operating voltage	220~240VAC 50/60Hz		
Stand-by power	<1W		
Load ratings:			
	Capacitive: 400W; Resistive: 800W		
HCD038/BT	30mA (max. 15 devices)		
Warming-up	20s		
Environment			
Operation temperature	Ta: -20°C ~ +55°C		
Case temperature (Max.)	Tc: +75°C		
IP rating	IP20		

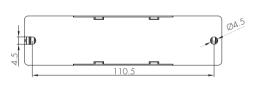
Mechanical Structure & Dimensions





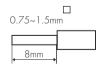
HCD038/BT (DALI output)





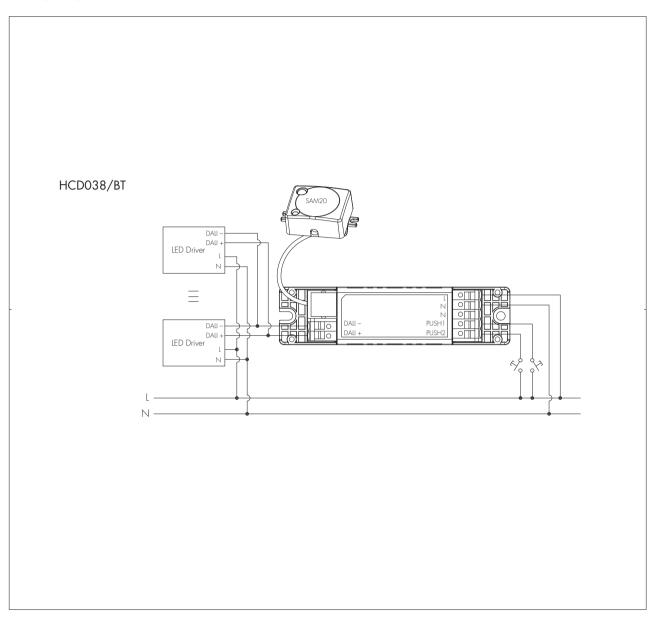
Wire Preparation





To make or release the wire from the terminal, use a screwdriver to push down the button.

Wiring Diagram



Technical Specifications for Sensor Heads

PIR Sensor Properties			
Sensor principle	PIR detection		
Operating voltage	5VDC		
Detection range *	HIRO5 & HIRO5/FM & & HIRO7 Max installation height: 3m Max detection range: 6m (diameter) HIR 1 1 Max installation height: 15m (forklift) 12m (single person) Max detection range: 24m (diameter)		
	HIR12 Max installation height: Max detection range:	15m (forklift) 12m (single person) 18m * 6m (L * W)	

HF Sensor Properties			
Sensor principle	High Frequency (microwave)		
Operating voltage	5VDC		
Operation frequency	5.8GHz +/-75MHz		
Transmission power	<0.2mW		
Detection range *	SAM20 / SAM21 / SAM22 Max installation height: 3m Max detection range: 12m (diameter) SAM23 Max installation height: 15m (forklift) 12m (single person) Max detection range: 20m (diameter)		

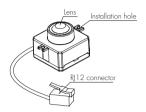
^{*} The detection range is heavily influenced by sensor placement (angle) and different walking paces. It may be reduced under certain conditions.

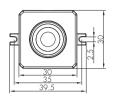
PIR & microwave sensor heads

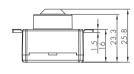
The range of PIR and microwave sensor heads below offers powerful number of Plug'n'Play feature options to expand the flexibility of luminaires design. This approach to luminaire design reduces space requirements and component costs whilst simplifying production.

A. HIRO5

PIR sensor head The cable length is around 65cm.

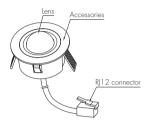


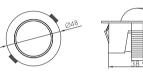


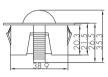


B. HIRO5/FM

PIR sensor head The cable length is around 65cm.



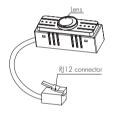


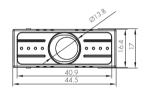


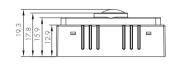


C. HIR07

PIR sensor head Photocell Advance™ The cable length is around 30cm.

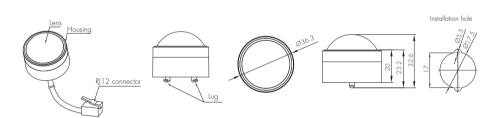






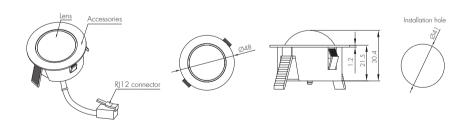
D. HIR11/S

PIR sensor head Surface mounting For highbay application IP65 (facia / lens part) The cable length is around 65cm.



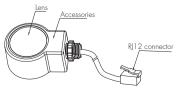
E. HIR11/F

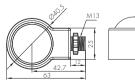
PIR sensor head Flush mounting For highbay application IP65 (facia / lens part) The cable length is around 65cm.

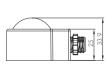


F. HIR11/C

PIR sensor head Screw to the luminaire by conduit For highbay application IP65 (facia / lens part) The cable length is around 65cm.









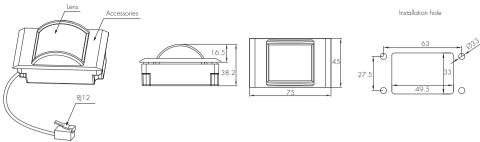
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G. HIR12

PIR sensor head For highbay application IP65 (facia / lens part) The cable length is around 65cm.



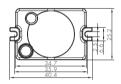
Installation for HIR12

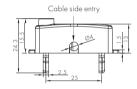


We suggest that the metal plate thickness to be 0.8mm - 1.6mm to ensure perfect focal length for the PIR lens.

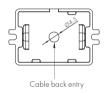
H. SAM20

HF sensor head Photocell AdvanceTM The cable length is around 30cm.



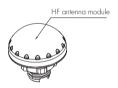






I. SAM21

HF sensor head IP65 The cable length is around 65cm.









J. SAM22

HF sensor head Flush mount The cable length is around 65cm.



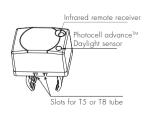




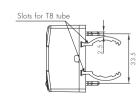


K. SAM23

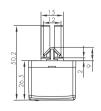
HF sensor head Photocell advance™ For highbay application The cable length is around 30cm.







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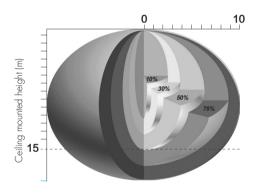
Optional Accessory: Reinforced Bluetooth Antenna

For some special applications, customers may need a larger Bluetooth transmission for both smartphone to device and device to device. Thanks to the reinforced Bluetooth antenna (optional black or white color to choose from), with it being added to the control base HCO38V/BT & HCDO38/BT, the transmission distance (smartphone to device) enlarges to 20m, the distance of device to device is around 50m.



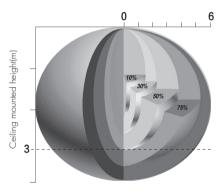
Detection Pattern

SAM23



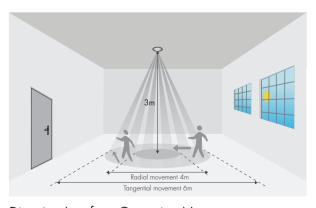
Ceiling mounted detection pattern (m)

SAM20 / SAM21 / SAM22



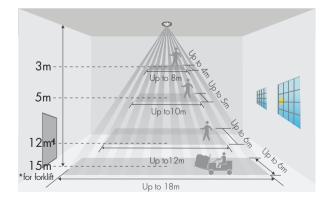
Ceiling mounted detection pattern (m)

HIRO5 & HIRO5/FM & HIRO5/E & HIRO7



Dimming Interface Operation Notes

HIR12



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	HIR11 (High-bay)				
	HIR11:	HIR11: High-bay lens detection pattern for forklift @ Ta = 20°C			
		(Recommended	installation height <u>1</u>	<u>Om-15m</u>)	
A: Tangential movement	B: Radial movement	Mount height	Tangential (A)	Radial (B)	
	h = max. 15m	1 Om	$max 380m^2 (\emptyset = 22m)$	$\max 201 m^2 (\emptyset = 16m)$	
h = max.15m		1 1 m	$\max 452 m^2 (\emptyset = 24 m)$	$max 201m^2 (\emptyset = 16m)$	
A		12m	$\max 452 m^2 (\emptyset = 24 m)$	$\max 201 \mathrm{m}^2 (\emptyset = 16 \mathrm{m})$	
And Mot Am		13m	$\max 452 m^2 (\emptyset = 24 m)$	$\max 177 m^2 (\emptyset = 15 m)$	
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		14m	$\max 452 m^2 (\emptyset = 24 m)$	$max 133m^2 (\emptyset = 13m)$	
insensitive sensitive	insensitive sensitive	1.5m	$\max 452 m^2 (\emptyset = 24 m)$	$max 113m^2 (\emptyset = 12m)$	
	HIR11:	High-bay lens detect	ion pattern for <u>single</u>	person @ Ta = 20°C	
		(Recommended	installation height 2.5	5 <u>m-12m</u>)	
A: Tangential movement	B: Radial movement	Mount height	Tangential (A)	Radial (B)	
	abla	2.5m	$\max 50\text{m}^2 (\varnothing = 8\text{m})$	$\max 7m^2 (\emptyset = 3m)$	
h = max.12m	h = max.12m	6m	$max 104m^2 (\emptyset = 11.5m)$	$\max 7m^2 (\emptyset = 3m)$	
A A	The state of the s	8m	$\max 154 \text{m}^2 (\emptyset = 14 \text{m})$	$\max 7m^2 (\varnothing = 3m)$	
Treented not		1 Om	$\max 227m^2 (\emptyset = 17m)$	$\max 7m^2 (\emptyset = 3m)$	
		11m	$\max 269 \text{m}^2 (\emptyset = 18.5 \text{m})$	$\max 7m^2 (\emptyset = 3m)$	
insensitive sensitive	insensitive sensitive	12m	$\max 314m^2 (\emptyset = 20m)$	$\max 7m^2 (\emptyset = 3m)$	

Switch-Dim

The provided Switch-Dim interface allows for a simple dimming method using commercially available non-latching (momentary) wall switches. Detailed Push switch configurations can be set on Koolmesh app.

Switch Function	Action	Descriptions	
	Short press (<1 second) * Short press has to be longer than 0.1s, or it will be invalid.	- Turn on/off - Recall a scene - Turn on only - Exit manual mode - Turn off only - Do nothing	
Push switch	Double push	- Turn on only - Exit manual mode - Turn off only - Do nothing - Recall a scene	
	Long press (≥1 second)	- Dimming - Colour tuning - Do nothing	
Simulate sensor	/	- Upgrade a normal on/off motion sensor to a Bluetooth controlled motion sensor	

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Additional Information / Documents

- For full explanation of Hytronik Photocell Advance[™] technology, please kindly refer to www.hytronik.com/download ->knowledge ->Introduction of Photocell Advance
- 2. To learn more about detailed product features/functions, please refer to www.hytronik.com/download ->knowledge ->Introduction of App Scenes and Product Functions
- 3. Regarding precautions for Bluetooth product installation and operation, please kindly refer to www.hytronik.com/download ->knowledge ->Bluetooth Products Precautions for Product Installation and Operation
- 4. Regarding precautions for microwave sensor installation and operation, please kindly refer to www.hytronik.com/download ->knowledge ->Microwave Sensors Precautions for Product Installation and Operation
- 5. Regarding precautions for PIR Sensors installation and operation, please kindly refer to www.hytronik.com/download ->knowledge ->PIR Sensors Precautions for Product Installation and Operation
- 6. Data sheet is subject to change without notice. Please always refer to the most recent release on www.hytronik.com/products/bluetooth technology ->Bluetooth Sensors
- 7. Regarding Hytronik standard guarantee policy, please refer to www.hytronik.com/download ->knowledge ->Hytronik Standard Guarantee Policy

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