

INSTALLATION / WARRANTY INSTRUCTIONS

PRODUCT BRAND: PIERLITE

PRODUCT NAME: Vandaguard LED with Lumen Select – 1200mm

PRODUCT CODE: VGOLS4D4; VGOLS4D4S4; VGOLS4D4H; VGOLS4D4M; VGOLS4D4HM2; VGOLS4D4N; VGOLS4D4MS4NPB

Issue Date: 4/5/2023

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), by an authorised and licensed electrician. The installation instructions were correct at the time of print. To reflect changes in technology and Australian and New Zealand standards; Pierlite reserves the right to amend the instructions without notice. Updated guidelines can be found on relevant brand web site.



1. PRODUCT SPECIFICATION:

Type of protection	Class I Luminaire
Ingress protection	IP66
IK Rating	IK10
Nominal voltage	240V
Nominal frequency	50 Hz
Number of wattages per fitting	5
Available wattages	65 selectable trough driver din switch 55W set as factory default on ordered fitting. 38W selectable trough driver din switch 35W selectable trough driver din switch 23 selectable trough driver din switch
Power factor	>0.8
Circuit wattage	Refer table in section 4
Inrush current	Cold start 10A (twidth = 2001µs Measured at 50% Ipeak) at 230VAC
Earth leakage	0.5
Operating ambient temperature	0 to +40°C
LED lifetime	>60,000 hours
Emergency Battery Lifetime	4 years
Colour temperature	4000K
Colour rendering index (CRI)	80
LED control gear	DALI
Sensor Available	Yes
Available in emergency	Yes, DALI and self-testing
Emergency battery technology	4-hour Lithium Iron Phosphate (LiFePO4)
Electrical connection	Direct to terminal block
Cable entry	Rear mounted center access via 25mm hole
Installation Orientation	Surface
Dimensions (LxWxH)	Refer to table in section 6
Net weight of luminaire	Refer to table in section 6
Warranty	5 years

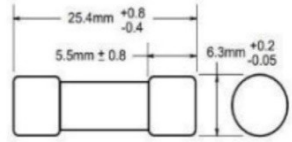


2. ELECTRICAL CHARACTERISTICS
4000K

SKU to Order	Selectable Wattages by Dip Switches (W)	Line Current (A)	Night Light Wattage (W)	Night Light Line Current (A)	Colour Temperature	Fuse and Surge Protector	Emergency	Sensor	Night Light	Factory Default Setting
VGOLS4D4	65	0.29	No Night Light		4K	No	No	No	No	
	55	0.24				No	No	No	No	Yes
	38	0.179				No	No	No	No	
	32	0.148				No	No	No	No	
	23	0.112				No	No	No	No	
VGOLS4D4S4 & VGOLS4D4H	69	0.3	No Night Light		4K	No	Yes	No	No	
	58	0.27				No	Yes	No	No	Yes
	42	0.21				No	Yes	No	No	
	35	0.18				No	Yes	No	No	
	26	0.14				No	Yes	No	No	
VGOLS4D4M & VGOLS4D4HM2	65	0.29	No Night Light		4K	No	No	Yes	No	
	55	0.24				No	No	Yes	No	Yes
	38	0.179				No	No	Yes	No	
	32	0.148				No	No	Yes	No	
	23	0.112				No	No	Yes	No	
VGOLS4D4N	65	0.29	2.8	0.183	4K	No	No	No	Yes	
	55	0.24				No	No	No	Yes	Yes
	38	0.179				No	No	No	Yes	
	32	0.148				No	No	No	Yes	
	23	0.112				No	No	No	Yes	
VGOLS4D4MS4NPB	69	0.3	2.8	0.183	4K	Yes	Yes	Yes	Yes	
	58	0.27				Yes	Yes	Yes	Yes	Yes
	42	0.21				Yes	Yes	Yes	Yes	
	35	0.18				Yes	Yes	Yes	Yes	
	26	0.14				Yes	Yes	Yes	Yes	

3. 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
4 hours Lithium Iron Phosphate	1	Pierlite	BATPK3200/3L31 DGLCEM3200/1L11 DGLCEM3200/2L12	80x70x28



4. LUMEN SELECT METHODOLOGY

Fitting Type	Diffuser	Wattage	Fitting Size	Control gear	Colour Temperature	Sensor type	Emergency	Night light	Government Spec
VG = Vandaguard	O = Opal	LS = Multi Wattage – factory default = 55w	4 = 4 foot (1200mm)	D = DALI	4 = 4000K 3 = 3000K A = Amber B = Blue	M = HF Sensor	S4 = Sustained 4hr	N = Night light	PB = Public works
Sensor									
H = High Frequency Microwave Sensor*									

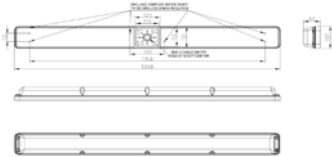
5. LUMINAIRES PER CIRCUIT BREAKER

Miniature Circuit Breaker	Qty.
Drivers per MCB 10A Type B	17
Drivers per MCB 16A Type B	27
Drivers per MCB 20A Type B	34
Drivers per MCB 25A Type B	42
Drivers per MCB 10A Type C	20
Drivers per MCB 16A Type C	32
Drivers per MCB 20A Type C	40
Drivers per MCB 25A Type C	50
Drivers per MCB 10A Type D	22
Drivers per MCB 16A Type D	36
Drivers per MCB 20A Type D	45
Drivers per MCB 25A Type D	57

*The quantity of luminaires per circuit breaker is a guide only, this information may change

6. LINE DIAGRAMS AND DIMENSIONS

Fitting size	Length in mm	Width in mm	Height in mm	Weight in kg
4 foot	1308	137	83	8



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

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.

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. Furthermore, with the omission of nominated survival curves and/or recommended operating hours, product design expectations provide for a continual daily usage of 6 hours for residential applications and a continual daily usage of 12 hours for commercial and industrial applications. All products must be thoroughly cleaned on a regular basis at intervals that reflect in the installation environment, ensuring the optical performance, together with the electrical, mechanical, and structural integrity as designed, is maintained throughout the service life of the product.

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".



STORAGE: Prior to installation products are to be stored in cool and dry conditions
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

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.

(a) Battery (where provided): The battery is designed with a rated average battery design life in standby mode, and is supported with a standard warranty (refer to product specifications for details); 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.

(b) 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.

(c) Cables or cords (where provided): If any external cable or cord of the X or Y type luminaire is damaged, it shall be replaced by a qualified person or manufacturers service agent.

For Z type attachments to luminaire, cord cannot be replaced if damaged, the luminaire shall be removed from service.

Flex cord types

- X: Specially prepared flexible cable or cord, may also include a part of the luminaire and only available from manufacturer.
- Y: Attachment may be used with either an ordinary or special flexible cable/cord.
- Z: Attachment of cable/cord that cannot be replaced without damage to luminaire

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

Warranty period - The above components are provided with a warranty (refer to product specifications for details) against manufacturing defects or failure to perform to specifications for products installed by an authorized installer in accordance with the manufacturer's installation instructions and which have not been subject to incorrect operation or maintenance, unauthorized 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, 96 Gow Street Padstow NSW 2211, phone T 1300 799 300 – 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.

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. **Koolmesh™**










HCD038/BT

App Features

-  Quick setup mode & advanced setup mode
-  Tri-level control
-  Daylight harvest
-  Circadian rhythm (Human centric lighting)
-  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
-  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
-  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
-  Different permission levels via authority management
-  Network sharing via QR code or keycode
-  Remote control via gateway support HBGW01
-  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 (HCO38V/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

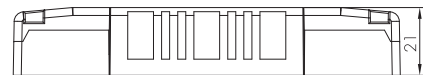
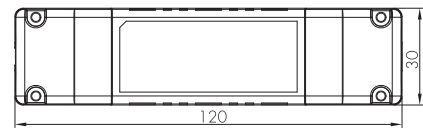
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Technical Specifications (HCD038/BT)

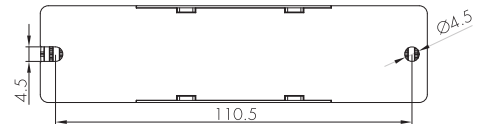
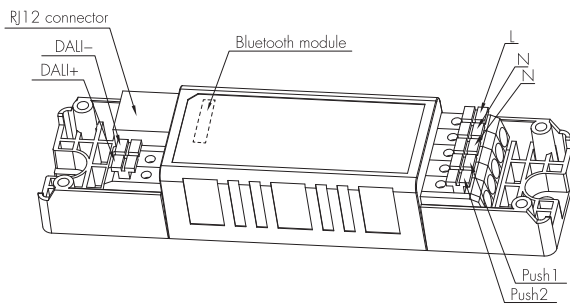
Bluetooth Transceiver	
Operation frequency	2.4 GHz - 2.483 GHz
Transmission power	4 dBm
Range (Typical indoor)	10~30m
Protocol	 Bluetooth® 5.0 SIG Mesh
Safety & EMC	
EMC standard (EMC)	EN55015, EN61000, EN61547
Safety standard (LVD)	EN60669-1, EN60669-2-1
RED	EN300328, EN301489-1/-17
Certification	Semko, CB, CE, EMC, RED, RCM

Input & Output Characteristics	
Operating voltage	220~240VAC 50/60Hz
Stand-by power	<1W
Load ratings:	Capacitive: 400W; Resistive: 800W 30mA (max. 15 devices)
HCD038/BT	
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)

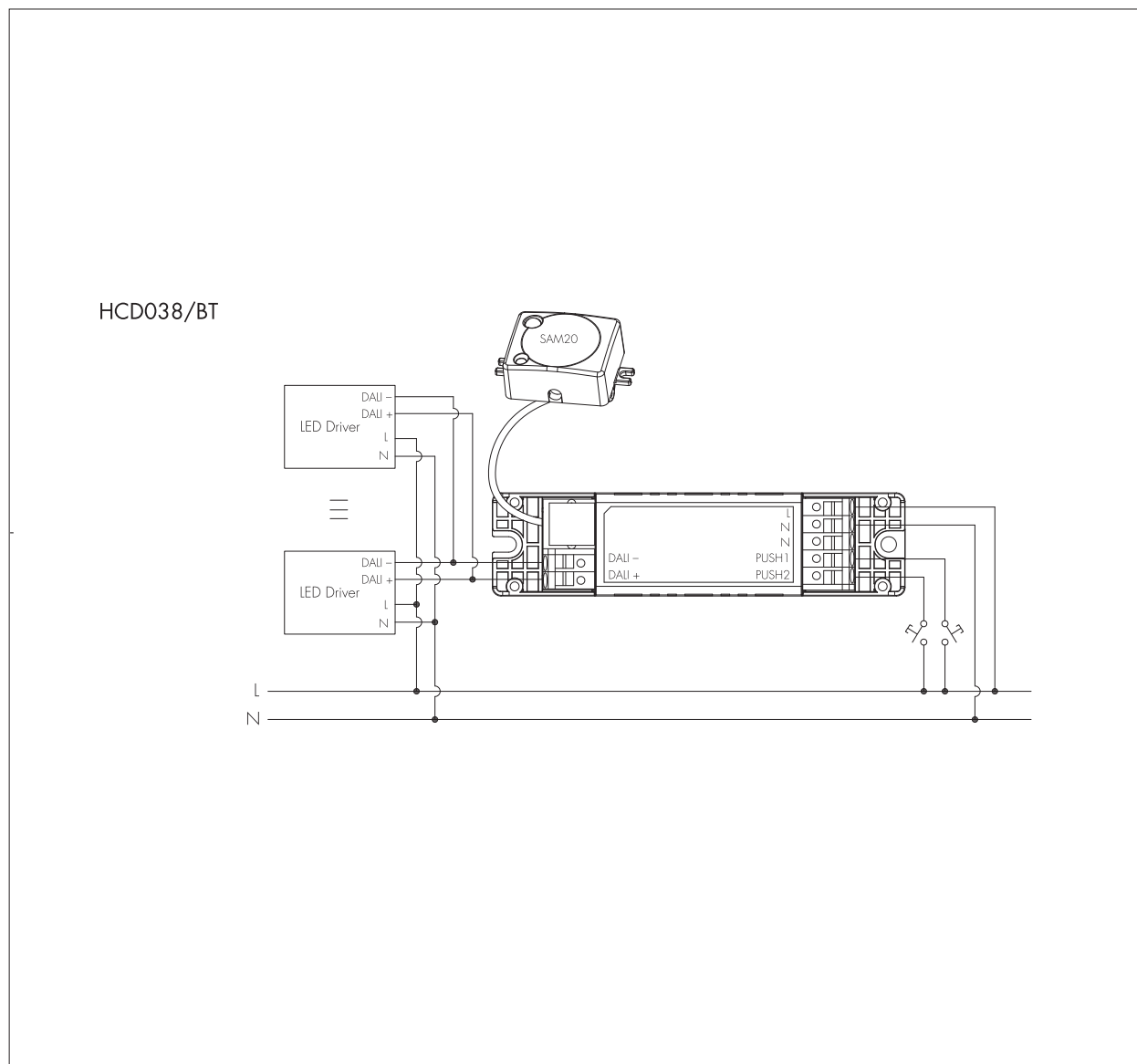


Wire Preparation



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)
	HIR11 Max installation height: 15m (forklift) 12m (single person) Max detection range: 24m (diameter)
	HIR12 Max installation height: 15m (forklift) 12m (single person) Max detection range: 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.