

Order Codes

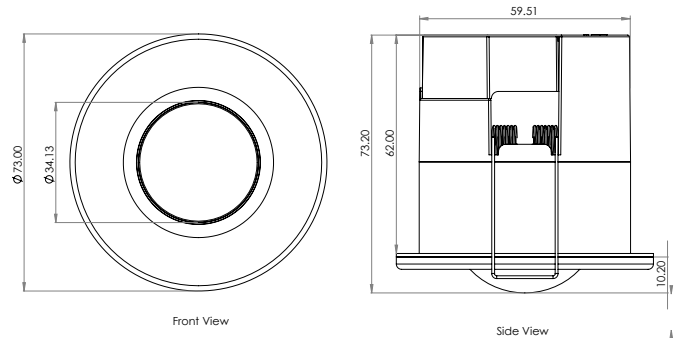
| Product SKU | Description |
|-------------|------------------------|
| VS-S1-LBW | S1 Sensor - White |
| VS-S1-SMW | S1 Surface Kit - White |

Technical Specification

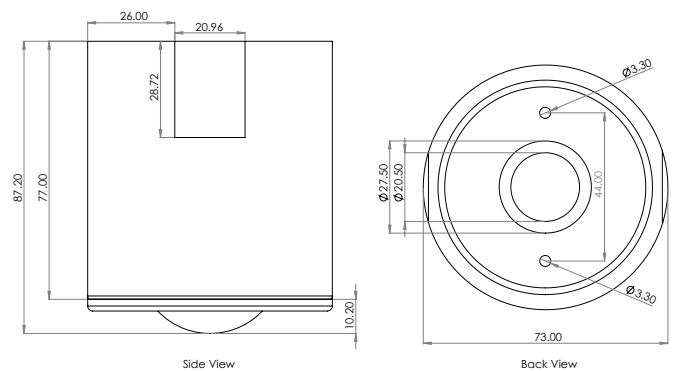
| | |
|------------------------------|--|
| Control | Casambi |
| Wireless Range | STD: 85m LR: 160m (LOS) |
| Supply | 220-240VAC 50/60Hz |
| Output | DALI 50mA/16.5VDC |
| Max DALI Load | Up to 25 Drivers |
| Output | Relay 10A Capacitive Relay 10A Inductive Relay 10A Resistive |
| Maximum Inrush | 250A/1ms, 140A/10ms |
| Input | 1x Push Button Input |
| Lens | Fresnel |
| Sensor | PIR, Ambient Light |
| Light Detection Range | 1-999 Lux |
| Operating Temperature | -10 to 55°C |
| Wiring | Loop in/loop out (No Earth) |
| Terminal Capacity | 2.5mm ² |
| Material | Flame Retardant ABS+PC |
| Ingress Protection | IP65 - Recessed (Front Only) or Surface Mounted (All) |
| Cutout | 62-66mm |
| Transceiver Frequency | 2.4GHz ISM Band |
| Warranty | 5 Years |

Dimensions (mm)

VS-S1-LBW



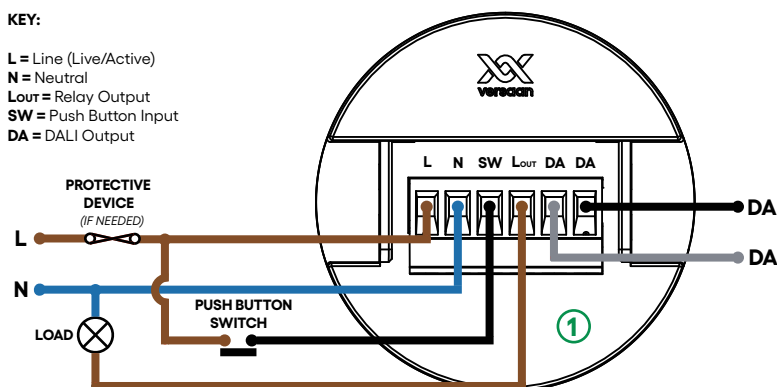
VS-S1-SMW (with S1 installed)



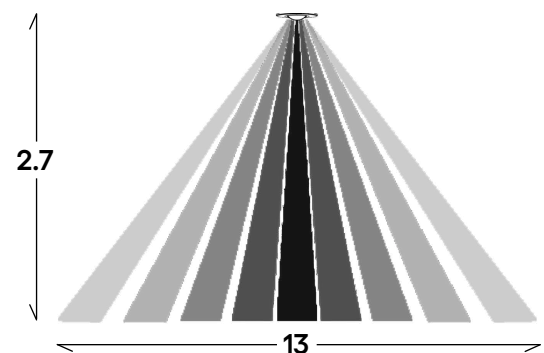
Wiring Schematic

KEY:

L = Line (Live/Active)
N = Neutral
Lout = Relay Output
SW = Push Button Input
DA = DALI Output



Detection Pattern (m)



Safety Information

Install only by a licensed electrician. Turn off and isolate the electrical supply before installation. No user serviceable parts; servicing voids the warranty. Treat DALI as LV, not SELV. Installers must comply with building and safety codes. Refer to relevant standards.

NOTES

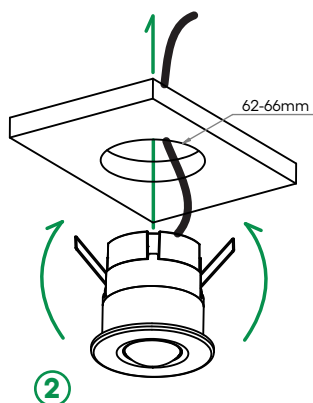
Calculate the inrush current of the total load to ensure it doesn't exceed the maximum limit, or risk relay damage or failure, voiding warranty. Unity S1 must be at least 1 metre away from heat sources (eg HVAC, direct sunlight).

Installation

Unbox the product and carefully inspect it for any signs of damage. If you notice any defects or issues, do not proceed with the installation. Return the product to the original place of purchase for an exchange.

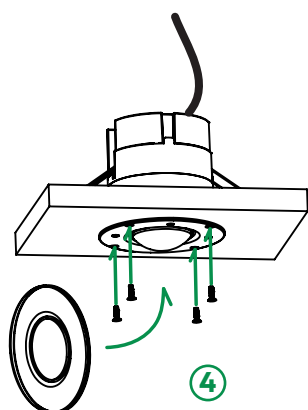
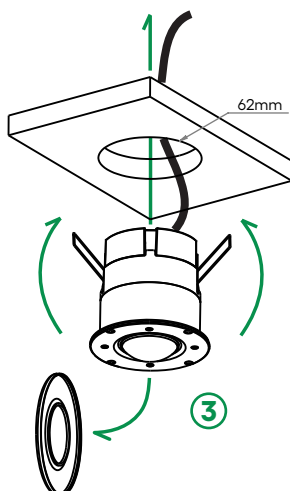
Recessed (IP54 From Front)

1. Refer to the detection pattern guide for proper placement.
2. Drill 62-66mm hole with a hole saw.
3. Wire the Unity S1 as per the wiring diagram (fig 1).
4. Lift spring clips upward and insert Unity S1 into the ceiling (see fig 2).
5. Installation complete



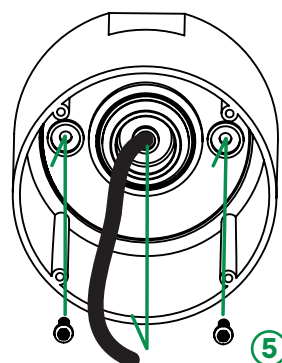
Recessed (IP65 From Front)

1. Refer to the detection pattern guide for proper placement.
2. Drill 62mm hole with a hole saw.
3. Wire the Unity S1 as per the wiring diagram (fig 1).
4. Lift spring clips upward, remove cover and insert Unity S1 into the ceiling. (see fig 3).



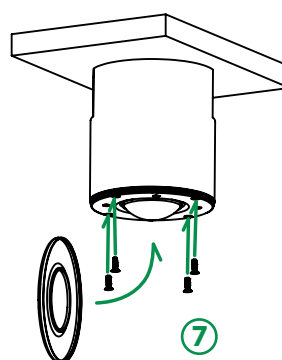
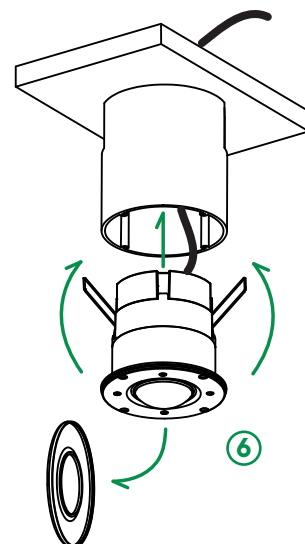
5. Make sure the Unity S1 is seated properly then screw the supplied 4x Phillips PH1 M2.5 countersunk screws into the 4 mounting holes (see fig 4). Make sure the material the screws are being installed in is dense enough to provide secure mounting.
6. Replace the cover
7. Installation complete

Surface (IP65)



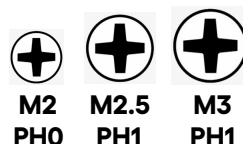
1. Refer to the detection pattern guide for proper placement.
2. Drill 2x 2.5mm holes 44mm apart.
3. Drill a third central hole and pull the electrical cable through the IP67 seal on the back of the kit.
4. Centre the Surface kit across the 2x 2.5mm holes and install the 2x Phillips PH1 M3 Pan Head screws to tighten the Surface kit to the ceiling (see fig 5).

5. Wire the Unity S1 as per the wiring diagram (see fig 1).
6. Lift spring clip upwards, remove cover and insert Unity S1 into the Surface kit (see fig 6).
7. Screw the supplied 4x Phillips PH1 M2.5 countersunk screws into the 4 mounting holes and into the Surface kit (see fig 7).



8. Replace the cover
9. Installation complete

Driver Requirements (Phillips)



Profiles

| Fixture | Model | Description |
|---------------------------|---|---|
| All fixtures below | Default Settings - In addition to all profiles below (profile dependant) | Relay with ON/OFF Toggle, OFF when Dimmed to 0%, ON when >0%. PB controls dimming/ON/OFF by default. Default Sensor Mode 20min Hold/1sec Fade/Presence 75%/Absence 0%/Remove Manual Control Enabled |
| Most Used Profiles | | |
| 35768 | Unity S1 DALI/BC/DIM/RELAY | Basic DALI broadcast dimmer, no short addressing required (Default Profile) |
| 38456 | Unity S1 DALI/DT8/DIM,TW/RELAY | DALI Dimmer with tuneable white for Unity S1 with DALI DT8 driver supporting TC color model: warm/cool mixing is done by DALI driver, and Unity S1 sets dimlevel and temperature values |
| 38464 | Unity S1 DALI/DT8/DIM,RGBW/RELAY | 4-channel (RGBW) DALI DT8 dimmer supporting 'RGBWAF' colortype input: Dim and RGBWAF channels |
| 40532 | Unity S1 Motion/Ambient Light Sensor Only | Only Motion/Ambient Light Sensor/PB are active (DALI and RELAY disabled) |
| 40533 | Unity S1 Motion/Ambient Light/RELAY Only | Only Motion/Ambient Light Sensor/PB/RELAY are active (DALI disabled) |
| DALI DT6 | | |
| 37249 | Unity S1 DALI/1ch/DIM/RELAY | Basic DALI dimmer, using address #0 for dimming channel. |
| 37267 | Unity S1 DALI/2ch/DIM,DIM/RELAY | Two channel DALI dimmer. Dimmer #1: address #0, Dimmer #2: address #1. |
| 37268 | Unity S1 DALI/3ch/DIM,DIM,DIM/RELAY | Three channel DALI dimmer. Dimmer #1: address #0, Dimmer #2: address #1, Dimmer #3: |
| 37269 | Unity S1 DALI/4ch/DIM,DIM,DIM,DIM/RELAY | Four channel DALI dimmer. Dimmer #1: address #0, Dimmer #2: address #1, Dimmer #3: |
| 37270 | Unity S1 DALI/2ch/DIM,TW/RELAY | Two channel DALI warm/cool mixer |
| 37271 | Unity S1 DALI/2ch/DIM,TW(No Mix)/RELAY | Two channel DALI warm/cool without mixing. Address 0 will receive dim level and address |
| 38439 | Unity S1 DALI/2ch/DIM [WarmCool]/RELAY | Single DALI dimmer controlling two Tuneable White channels (CW and WW). E.g. light is |
| 38440 | Unity S1 DALI/2ch/DIM,Vertical/RELAY | DALI dimmer and vertical ratio selector (sum of channels is same as dim level) |
| 38441 | Unity S1 DALI/2ch/DIM,Vertical[No Mix]/RELAY | DALI dimmer and vertical ratio selector |
| 38442 | Unity S1 DALI/3ch/DIM,TW/RELAY | Three channel DALI dimmer with simulated tuneable-white effect (White, Warm White and Cold White) for dimmer and color temperature |
| 38443 | Unity S1 DALI/4ch/DIM,DIM TW/RELAY | Four channel DALI warm/cool mixer with two dimmer controls and shared color temperature control. 1x4-channel or 2x2-channel DALI driver(s) |
| 38445 | Unity S1 DALI/4ch/DIM,Vertical,TW [Evolution]/RELAY | Four channel DALI output for dual tunable white with dimming ratio selector |
| 38446 | Unity S1 DALI/3ch/DIM,RGB/RELAY | Three channel DALI RGB fixture, Red: address #0, Green: address #1, Blue: address #2 |
| 38447 | Unity S1 DALI/3ch/DIM,RGB,TW/RELAY | Three channel DALI RGB fixture with simulated tunable white; calibration graphs required, Red: address #0, Green: address #1, Blue: address #2 |
| 38448 | Unity S1 DALI/4ch/DIM,RGBW [deprecated]/RELAY | Four channel DALI RGB fixture with white LED. Cool and warm LED temperature should be set to same value. RGB and White leds are exclusive |
| 38449 | Unity S1 DALI/4ch/DIM,RGBW(TW)/RELAY | Four channel DALI RGBW fixture with simulated tunable white; calibration graphs required. Red: address #0, Green: address #1, Blue: address #2, White: address #3 |
| 38450 | Unity S1 DALI/4ch/DIM,RGBW/RELAY | Four channel DALI RGB fixture with white. RGB is always present but amount of white can |
| 38451 | Unity S1 DALI/4ch/DIM,RGB/White/RELAY | Four channel DALI RGB fixture with white. The ratio between RGB and White is selected |
| 38452 | Unity S1 DALI/5ch/DIM,RGB,TW [Evolution]/RELAY | Five-channel DALI fixture with RGB and Tunable White (WW/CW) outputs. The ratio between RGB and TW is selected with mixer. |
| 38453 | Unity S1 DALI/5ch/DIM,RGB,TW [Evolution]/RELAY | Five-channel DALI fixture with exclusive RGB and Tunable White (WW/CW) outputs. Cross-fading is applied on switching between the color and white modes |
| 38454 | Unity S1 DALI/5ch/DIM,RGB/W+W[Evolution]/RELAY | Five-channel DALI RGB/W fixture with mixed White and extra light (White #2) output. The ratio between RGB and White is selected with mixer. White #2 can be independent, blended or modulated by the main Dimmer |
| 38455 | Unity S1 DALI/6ch/DIM,RGB/W+TW[Evolution]/RELAY | Six-channel DALI RGB fixture with mixed White and extra pair of WW + CW outputs. The ratio between RGB and White is selected with mixer. TW output is defined by own Dimmer (White #2) and Color Temperature controls |
| DALI DT8 | | |
| 38458 | Unity S1 DALI/DT8/DIM[WarmCool]/RELAY | Single DALI dimmer controlling both light intensity and color temperature. E.g. light is warmer at low dimming levels and cooler at high brightness levels. |
| 38460 | Unity S1 DALI/DT8/2x(DIM,TW)[Evolution]/RELAY | DALI dual tuneable-white fixture with two DT8 DALI output addresses |
| 38461 | Unity S1 DALI/DT8/DIM,DIM,TW/RELAY | 2 DALI dimmers with common tuneable-white control |
| 38462 | Unity S1 DALI/DT8/DIM,DIM,DIM,TW/RELAY | 3 DALI dimmers with common tuneable-white control |
| 38463 | Unity S1 DALI/DT8/DIM,RGB/RELAY | 3-channel (RGB) DALI DT8 dimmer supporting 'RGBWAF' color-type input: Dim and RGBWAF channels |
| 38466 | Unity S1 DALI/DT8/DIM,RGB/White[Evolution]/RELAY | 4-channel (RGBW) DALI DT8 dimmer with mixer for RGB and White channels. |
| 38467 | Unity S1 DALI/DT8/DIM,RGB,TW/RELAY | DALI DT8 dimmer with mutually exclusive RGB or TC (color temperature) controls |
| 38468 | Unity S1 DALI/DT8/DIM,RGB,TW[Evolution]/RELAY | DALI DT8 dimmer with mutually exclusive RGB or TC (color temperature) controls |
| 38469 | Unity S1 DALI/DT8/DIM,RGBW(AF)[Evolution]/RELAY | DALI DT8 dimmer with 4/5/6-channel RGBWAF outputs; Add 1-2 custom elements for the White/Amber/Freecolor channels. |
| 38470 | Unity S1 DALI/DT8/DIM,RGBW(AF),TW[Evolution]/RELAY | DALI DT8 dimmer with 4/5/6 channels RGBWAF output with exclusive RGBW+A+F or TC (color temperature) modes; add 1-2 custom elements for the extra Amber/Freecolor channels. |
| 38471 | Unity S1 DALI/DT8/DIM,RGB+TW(WAF)[Evolution]/RELAY | DALI DT8 dimmer with 4/5/6-channel RGBWAF control, producing simultaneous output for color (RGB) and tuneable-white (WAF) channels; the White/Amber/Freecolor outputs are controlled with a single CCT level input. |
| 38473 | Unity S1 DALI/DT8/DIM,XY[Evolution]/RELAY | Multichannel DALI DT8 dimmer supporting 'XY' color-type control. |
| 38474 | Unity S1 DALI/DT8/DIM,XY,TW[Evolution]/RELAY | Multichannel DALI DT8 dimmer supporting exclusive 'XY' and 'TC' color-type control. |