

YALE PRO LED SURFACE MOUNTED LUMINAIRE INSTRUCTIONS

Issue 01 on 27th June 2023

THANK YOU for buying this product. To help ensure it gives complete satisfaction please install it according to these instructions and then pass the instructions to the appropriate person for retention and future reference.

SAFETY This is a mains powered product. It is designed to be installed by suitably qualified personnel only and in accordance with the applicable building and electrical regulations. Before installation or maintenance the electrical supply to the product must be isolated.

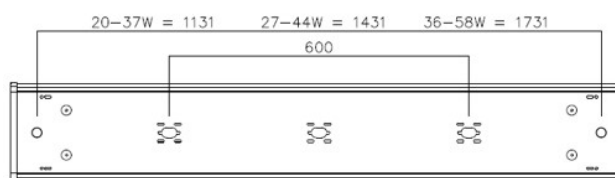


INSTALLATION SUPPORT If installation advice or accessories are required please contact us at the above address. We will do our best to help. When reporting a suspected fault or seeking installation support the problem is likely to be resolved most quickly if you have full product details to-hand as well as details of when and where it was purchased.

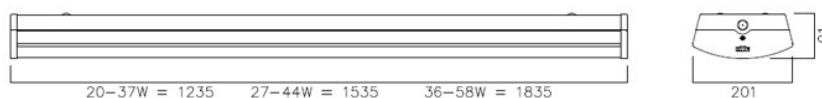
INSTALLATION

- Loosen the screw on both endcaps (no need to fully remove) and slide outwards slightly to allow them to un-clip the diffuser by gently pushing in one side & then pulling away from the body.
- Completely remove the gear tray from the body by pinching together the exposed legs of the two gear tray retaining clips to release & then unclipping from the snap hooks of the retaining straps.
- The body can now be installed via one of the following methods:

(a) Surface Fixing – The body is pierced to provide 3-off besa fixing points along the centre line of the body, and 4-off screw fixing points via dimpled stand-offs, spaced at the dimensions shown.



(b) Conduit or Chain Suspension – The body is pierced with a 20mm diameter hole at each end at the dimensions shown.



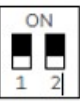
Alternatively the besa fixing points could also be used. It may be the middle besa is required to provide extra support on the longer versions. Note! No fixing clips are provided.



(c) Wire Suspension - This will require the wire suspension kit, which is supplied as an optional extra so must be ordered separately (Order code: NYA/WIRE/SUSP/KIT). Separate instructions are supplied with the kit to detail the installation of the wire suspension.


- Offer the luminaire to the chosen mounting surface or suspension mechanism, passing the mains supply cable through the appropriate cable entry point & securely fix luminaire body in position.
 - Offer the gear tray back to the body & reconnect the snap hooks of the retaining straps to allow the gear tray to be suspended.
 - Route the mains supply cable to the terminal block & terminate ensuring correct polarity is observed.
- WARNING: THIS LUMINAIRE MUST BE EARTHED**
- The drivers on all variants come with DIP switch settable fixed outputs; the default setting is indicated in the tables below.
 - The DIP switches can be used to adjust the lumen output of each variant as shown.

NYA/4/20-37/840
400 mA: Switch 1 = Off, Switch 2 = Off




20W - 2600 Lumens

500 mA: Switch 1 = On, Switch 2 = Off




25W - 3244 Lumens

600 mA: Switch 1 = Off, Switch 2 = On




30W - 3861 Lumens
DEFAULT SETTING

700 mA: Switch 1 = On, Switch 2 = On




35W - 4455 Lumens

NYA/5/27-44/840
500mA Switch 1 = Off, Switch 2 = Off




27W - 3673 Lumens
DEFAULT SETTING

600mA Switch 1 = On, Switch 2 = Off




33W - 4401 Lumens

700 mA Switch 1 = Off, Switch 2 = On



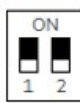
38W - 5134 Lumens

800 mA : Switch 1 = On, Switch 2 = On



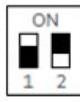
44W - 5710 Lumens

NYA/6/36-58/840
700 mA: Switch 1 = Off, Switch 2 = Off




36W - 5078 Lumens

850 mA: Switch 1 = On, Switch 2 = Off




46W - 6211 Lumens

900 mA: Switch 1 = Off, Switch 2 = On



49W - 6511 Lumens
DEFAULT SETTING

1,050 mA: Switch 1 = On, Switch 2 = On



58W - 7648 Lumens

8. Re-install the gear tray by aligning the slots in the gear tray over the legs of the clips & then push into body. Ensure the step of the clip effectively locates through the slot on the gear tray to secure.
9. Refit the controller ensuring it clips on to the body & then secure by sliding over the endcaps & retightening the screws.
10. Reconnect power supply & check for correct operation. Note! Luminaires fitted with electronic drivers are exempt from insulation resistance tests as this may cause damage to the driver.

MAINTENANCE

1. Cleaning should be carried out at regular intervals so as not impair photometric performance or thermal safety of the luminaire.

AVAILABLE ACCESSORIES The following are accessories that are available from NVC:

Order Code:	Description:
NYA/WIRE/SUSP/KIT	Wire suspension kit for Yale

GENERAL MAINTAINED EMERGENCY LUMINAIRE INSTRUCTIONS

These instructions should be followed in conjunction with the standard luminaire instructions. Please read carefully and pass to the end user/responsible person for retention and future reference.

INSTALLATION

1. Following the installation of the luminaire in accordance with the standard luminaire installation instructions, a separate permanent live supply should be terminated in the incoming supply terminal block in the luminaire, in the connection marked 'L PERM'. The permanent supply **MUST** be taken from the same phase as the corresponding switched supply and **MUST** be wired at the switchboard so that upon instances of tests, it is isolated at the same time as the switched supply.
2. N.B. to avoid potential damage to the battery please ensure the permanent live is energized as soon as possible following connection of the battery to the module.
3. Upon restoration of the power supply to the luminaire, check that the indicator LED fitted within the luminaire illuminates green. This indicates that the batteries are charging and that the charging circuit is healthy.
4. Allow the battery to charge for an uninterrupted period of not less than 24 hours prior to carrying out a full discharge test.

MAINTENANCE

5. The battery pack in this luminaire must be replaced when it is no longer able to satisfy its full rated duration.
6. In emergency mode the light level of the luminaire will be at a reduced output. Regular maintenance and gentle cleaning are recommended so as to ensure that the Emergency Output Factor (E.O.F) remains at specified levels.
7. Isolate the supply before servicing.
8. Please ensure that the emergency flux is not compromised at any time throughout the luminaires design life.
9. **DO NOT INSULATION TEST**

Caution:

The battery pack in this luminaire is a Lithium Iron Phosphate (LiFePO₄) type which includes a dedicated protection circuit. If replacing the battery pack, the specification and chemistry **must** be identical to that detailed on the battery label.

TESTING OF EMERGENCY LUMINAIRES:

Recommended routine test procedures in line with BS 5266-1:2016 & BS EN 50172:2004.

MICROWAVE SENSOR C/W DIP SWITCHES INSTRUCTIONS (FOR PRODUCTS WITH SUFFIX .../MW)

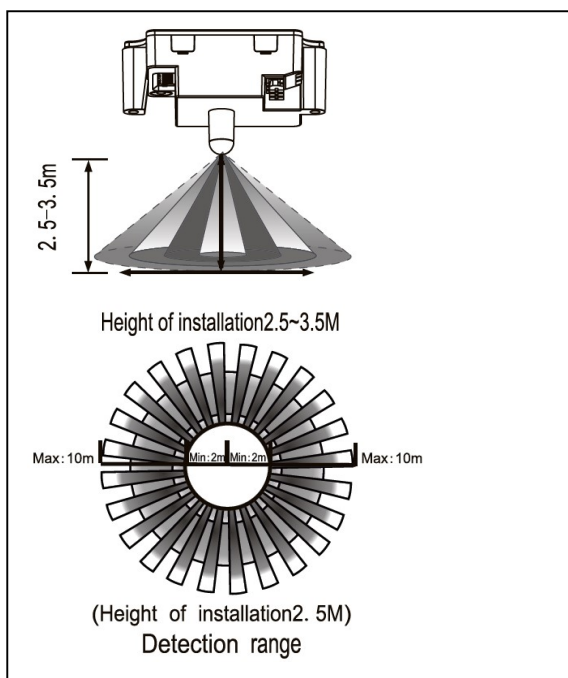
These instructions are in addition to the standard luminaire instructions that were also supplied with the product you have purchased. They should be read carefully & luminaire installed as per both sets of instructions, then pass on to the appropriate person for retention for future reference & maintenance.

DESCRIPTION

The NVC micro-wave sensor option offers presence detection to provide automatic control of lighting loads. It is installed inside the luminaire so does not affect external aesthetics or IP rating. Manual adjustments on the sensor allow it to be individually tailored to suit your application.

POSITIONING

The luminaire with detector should be sited so that the occupants of the room fall inside the detection patterns shown in the appropriate diagram below:



- The diagram is based on a ceiling mounting height of 2.5m. Note that the lower the sensor is installed, the smaller the detection range will be.
 - If wall mounted, the detection zone will vary depending on the surroundings but perpendicular reach will be at least 10m
 - The area closest to the sensor & also the area more perpendicular to the sensor will have higher sensitivity.
 - The distances quoted are approximate & may vary depending on surroundings
 - Avoid direct sunlight entering the sensor.
 - Do not site within 1m of forced air heating or ventilation.
 - Do not fix to a vibrating surface.
 - Avoid metallic objects directly in front of the sensor head.
 - These sensor kits are capable of switching/controlling more than one luminaire in a 'master & slave' set up. This is done by linking non-sensored fittings (slaves) to the one with the sensor fitted (master) using the live output from the sensor.
- Note!** **DO NOT** link other fittings containing MW sensors together in this way, as it can cause false triggering of the sensors.

SETTINGS

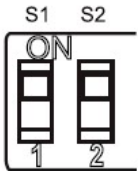
The following adjustments can be made using the DIP switches located on the sensor unit.

DEFAULT FACTORY SETTINGS...

Sensitivity – 10m Time – 20mins Lux – 24H (lux level control disabled)

1. SENSITIVITY

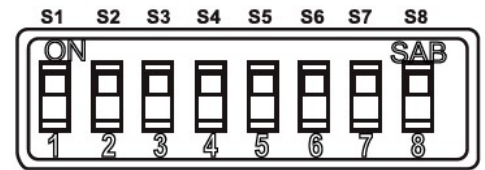
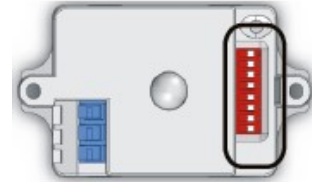
Set the detection range using the S1 & S2 DIP switches as shown below.



SENS: S1, S2

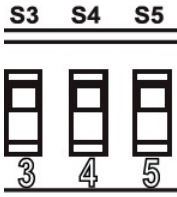
S1	S2	detection range
0	0	2m
0	1	5m
1	0	8m
1	1	10m

N.B. DIP switch ON position=1



2. TIME

Set the required time delay between 10 secs - 30 mins using S3, S4 & S5 DIP switches as shown below:

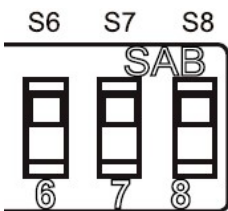


TIME: S3, S4, S5

S3	S4	S5	TIME
0	0	0	10s
0	0	1	1min
0	1	0	5min
0	1	1	10min
1	0	0	15min
1	0	1	20min
1	1	0	25min
1	1	1	30min

3. LUX

Set the required Lux level by using S6, S7 & S8 DIP switches as shown below.



LUX: S6, S7, S8

S6	S7	S8	LUX
0	0	0	24H
0	0	1	10LUX
0	1	0	20LUX
0	1	1	50LUX
1	0	0	100LUX
1	0	1	200LUX
1	1	0	300LUX
1	1	1	500LUX

RATINGS

Power supply	220-240VAC 50/60Hz
Transmission Power	<0.2mW
Rated Load	1000W
Power Consumption	0.5W approx.

FAULT FINDING

If you experiencing a problem please check through the following before making contact with NVC:

Fault - Load does not come on

- Check to see if the live supply to the circuit is good.
- If the supply & wiring are good, check the LUX setting. Increase the LUX level setting to allow the sensor to turn on at a higher ambient light level.

Fault - Lights do not go off

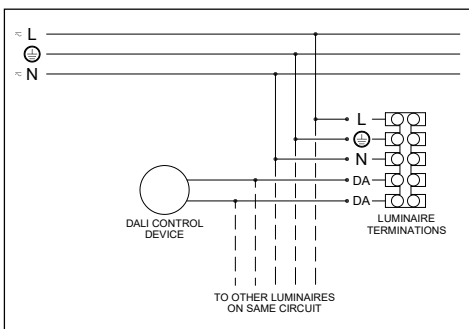
- Ensure that the area is left unoccupied for longer than the selected timer setting.
- Make sure that the sensor is not adjacent to circulating air, heaters or lamps.
- If the unit “false triggers” reduce the SENSITIVITY level to narrow the area of detection.
- Ensure luminaire is not connected in parallel with other luminaires containing MW sensors

DD DIMMING VERSIONS ONLY

TYPE OF DIMMING

This product uses a LED driver that is capable of 2 methods of dimming:

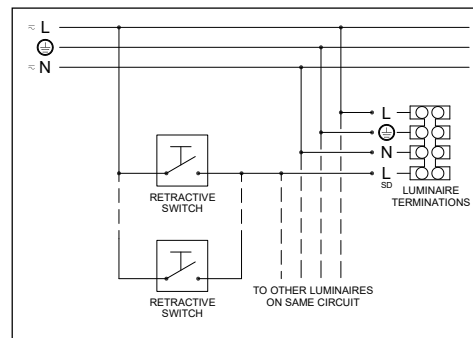
DALI



Dimming via a Digital Addressable Lighting Interface.

Note! Further input may be required from your lighting controls provider.

SWITCH-DIM



Dimming via a retractive switch.

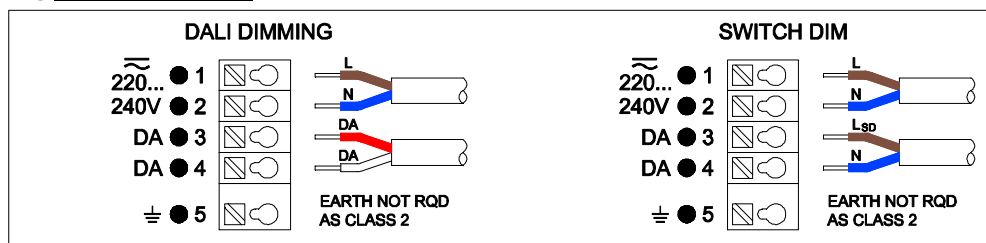
Note! Different makes of control gear should never be actuated by the same retractive switch in an installation. There is a risk of a conflict in what you are asking the ballast to do.

REMOTE DRIVER WIRING

Power supply & signal wires input for luminaires with remote mounted LED drivers (i.e. driver not inside luminaire).

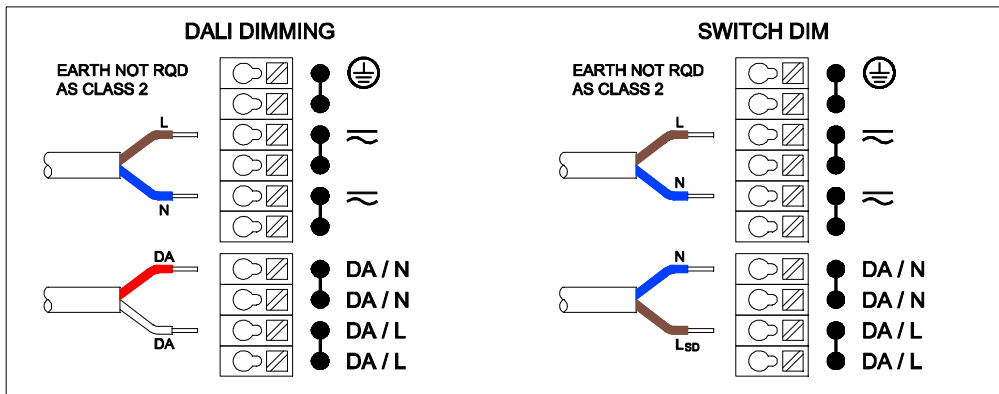
Note! The make of LED driver will need to be identified so the correct wiring can be followed.

Luminaires using OSRAM QTI DALI

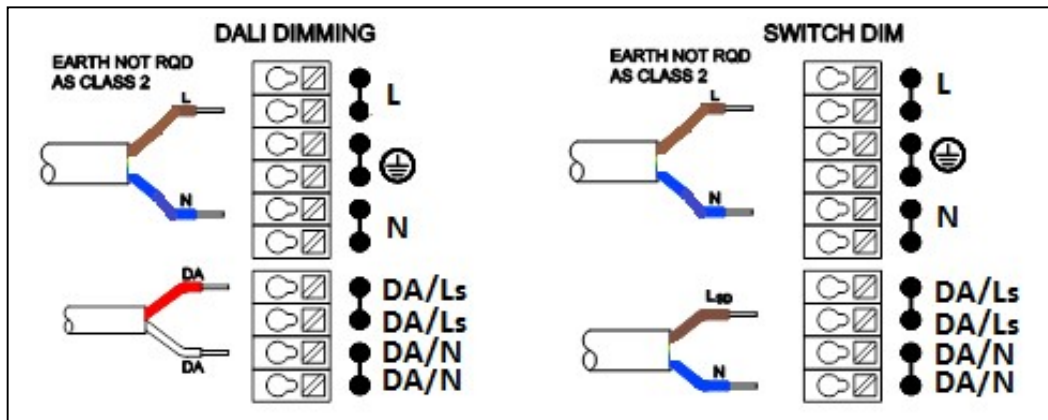


Note: L_{SD} = Switch Dim Live

Luminaires using TRIDONIC ECO SR



Luminaires using PHILIPS XITANIUM



INTERNAL DRIVER WIRING

Power supply & signal wires input for luminaires with built in LED driver & where there is a terminal block present

