

INDO AIR1 - Installation Instructions



* Carefully review this document before installing or maintaining the unit *



- Input:** 240VAC, 50Hz
- Weight:** <3kg (all variants)
- Windage:** < 0.025m²
- Design Mounting Height:** Up to 8m
- Mounting Options:** 60-76mm post top (PT), 33-60mm side entry (SE)
- Penetration Requirement:** 80mm PT, 110mm SE
- Tools Required:** Small flat head screwdriver
Torque wrench with M5 Torx head (TX25)
M8 socket head
- Cleaning/Maintenance:** Clean with a damp lint free cloth. Do not use cleaning agents. Any debris on the top surface of the fitting should be washed out.

The light source contained in this luminaire shall only be replaced by the manufacturer or his service agent or a similar qualified person. This is a Class I luminaire and must be earthed. High voltage testing can cause damage to LED fittings - use appropriate installation test method.

1. ISOLATE MAINS AND OBSERVE ALL SAFE WORKING PRACTICES BEFORE ATTEMPTING ANY WORK

2. Wire the mains feed into the female connector

The INDO Air is supplied with a plug and play connector, blanking plugs and side entry bracket. Remove the female connector block from the accessories bag



Blanking Plugs (PT and SE)



33-42mm Side Entry Bracket

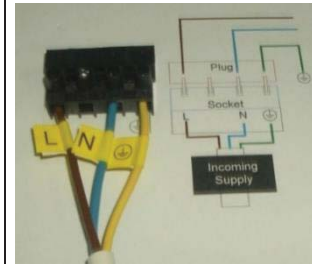
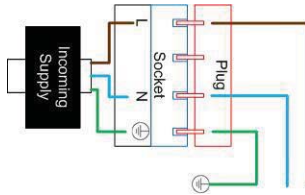


Female connector block

3. Wire in the connector

For all configurations as listed below, wire the connector shown (right):

- NEMA
- Miniature Cell
- Integrated Photocell
- No Photocell;



4. Setting Up for Post Top Mounting/ Adjusting Inclination

By default, the unit is supplied Post Top (PT) at 0°. For Side Entry (SE), see Section 5

The insert for 60-76mm PT should be fitted into the luminaire as shown.

To adjust the angle, loosen the two M5 TORX screws by 1 turn and slide the bracket to the desired position as indicated by the markings on the bracket.

NB: If an adjustment is made, **both M5 TORX Bolts must be re-tightened to a torque setting of 4.7 Nm (+/- 0.5Nm).**

Route the cable as shown. Ensure the strain relief cable tie is tightened and the excess cable tie clipped back. If the cable needs replacing the cable tie must be replaced by a new 5mm cable tie and re-applied according to the above.

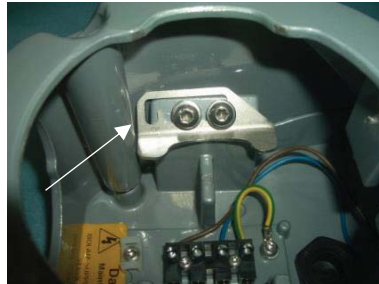


Figure 1 - Post Top 0°



Figure 2 - Post Top 5°

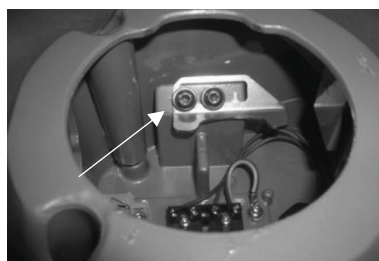


Figure 3 - Post Top 10°

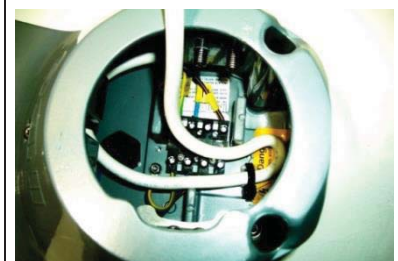


Figure 4 - Cable Route

5a. Side Entry Mounting Brackets:

Select the desired insert for SE 33-42mm or 48-60mm. **(Please note the 48-60mm bracket must be ordered separately)**



Standard Bracket
33-42mm



Non-standard Bracket
- 48-60mm
supplied separately

5b. Setting up for Side Entry Mounting:

This insert should be fitted into the luminaire as shown, and the two M5 TORX must be tightened to a torque setting of **4.7 Nm +/- 0.5Nm**.

To convert the unit for SE installation, ensure the two grub screws are secured in the upper two threads, with the lower thread plugged with the supplied plastic piece. (See also section 7)

For side entry set-up: route cable from the terminal block under the side entry bracket over the cable tie saddle. Secure cable with cable tie to provide strain relief. Route cable over terminal block and around the back of the side entry stop so the cable feeds into the bracket arm. If the cable needs replacing the cable tie must be replaced by a new 5mm cable tie and reapplied according to the above.

Fit the unit to the bracket arm and secure in place.



Figure 5 - Notch towards back of the unit



Figure 6 - 48-60mm bracket position

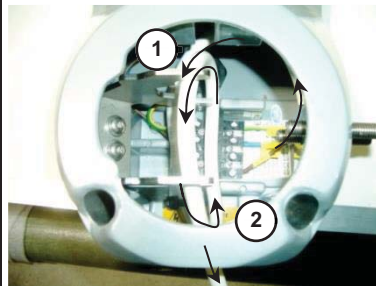


Figure 7 - Side entry cable routing



Figure 8 - Rotated view of Fig. 7

6a. Fitting luminaire onto column

Tear out appropriate gasket panel for column dimension, 60mm or 76mm.

Fit gasket in the position and orientation shown (Figure 9)

Loosely place the luminaire onto the top of the column (for PT) (Figure 10)

Ensure that there are no trapped cables by looking through the SE or PT cast hole.

The luminaire should naturally rest against the top metal plate. If this is not the case, loosen or tighten the M8 grub screws by hand so the luminaire naturally sits in position. (Figure 11)

Attach the smaller blanking plugs into the luminaire as shown (Figure 13)



Figure 9 - Install gasket to casting in orientation shown.



Figure 10 - column sitting against casting



Figure 11 - column sited against bracket

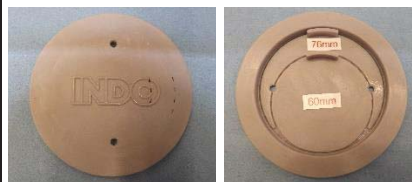


Figure 12 - Side Entry Bung



Figure 13 - PT Screw Position & Plug

6b. Fitting luminaire onto bracket 33-42mm:

Tear out the inner section on the smaller bung, slide bung on to the bracket arm

Ensure the correct bracket is fitted as shown in section 5a.

Loosely place the luminaire onto the bracket arm

Ensure that there are no trapped cables by looking through the SE or PT cast hole.

Hold the luminaire in position with one hand. With the other hand, tighten **BOTH** grub screws to 10Nm +/- 0.5Nm.

Manipulate the side entry bung into the casting to create a seal. Fit the larger bung to the underside see figure 17.

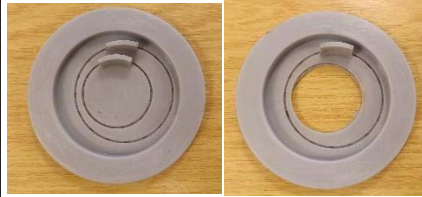


Figure 14 - Side Entry Bung 33-42mm



Figure 15 - Side Entry 33-42mm bracket



Figure 16 - Fit Bung on to bracket



Figure 17 - Fit both bungs

48-60mm:

Tear out the outer section on the smaller bung, slide bung on to the bracket as shown in Figure 18 and Figure 21.

Loosely place the luminaire onto the bracket arm

Ensure that there are no trapped cables by looking through the SE or PT cast hole.

Hold the luminaire in position with one hand. With the other hand, tighten **BOTH** grub screws to 10Nm +/- 0.5Nm.

Once the unit is secured in place push the bung up to the unit and into the SE entry hole in the casting as shown in Figure 22 and Figure 23.

Fit the large bung to the underside.



Figure 18 - Side Entry Bung 48-60mm



Figure 19 - Side Entry 48-60mm



Figure 21 - Fit Bung on to bracket



Figure 22 - Fit both bungs



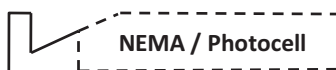
Figure 20 - Slide bung onto bracket



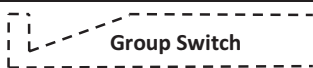
Figure 23 - Slide bung back up to the Air1

7. Tighten the M8 grub screws: Hold the luminaire in position at approximately the correct inclination with one hand. With the other hand, tighten **BOTH** grub screws to 10Nm +/- 0.5Nm.

8. Initial Power Up Test Sequence: Depending on the configuration, the unit will power up in ONE of a number of ways;



'Night Time': On 100% for 0.5 seconds – Dim – Ramp up - Stays On
'Day Time': On 100% for 0.5 seconds – Dim – Ramp up for test period – Off



Switch 'On': On 100% for 0.5 seconds – Off – Turns on gradually if switch is On
Switch 'Off': Stays off if switch is Off



'Night Time': On 50% for 17 seconds – Off 7 seconds – Ramp up - Stays On
'Day Time': On 50% for 17 seconds – Off
Note: The test cycle for units fitted with the integrated photocell is only applicable if they have been powered for less than 8 hours. (Normal switching sets in after 8 hours)