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DO:

- 'I'Sense nodes must only be installed by competent personnel.
- Ensure that all electrical connections are secure and correct.
- All wires are in correct location and <u>node is not obstructed on lantern closure</u>.
- Ensure that watertight sealing is correct between the lantern canopy body and the 'I'Sense Node. Some canopy bodies may require an additional sealing between lantern and 'I'Sense Node please consult with ASK Controls Ltd if you are unsure.
- Ensure that the identity label is in place on the 'I'Sense Node for future reference. (Removal of the label will render the warranty invalid)
- Should the 'I'Sense node case becomes damaged for any reason, disconnect and secure the mains supply and remove and return the 'I'Sense node to your supplier for disposal, repair or replacement.

   Warning: Mains voltages are present in the internal components, including the antenna

- Ensure that the ID of the 'I'Sense node is noted against its site location. (This will be required by the AMS Management System)

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DO NOT:

- Dismantle the case. There are no user serviceable parts in the 'I'Sense node (Removal of the labels will render the warranty invalid).
- Connect the mains supply to the DALI data terminals as this will damage the 'I'Sense node.
- Under no circumstance remove the Photo-light tube from the Casing.

   Warning: Mains voltages are present in the internal components, including the antenna.

<u>Environmental conditions can affect the performance of the 'I'Sense node. Working temperatures are between -30 to + 50 with a maximum 75 centigrade.</u>

Should you require further details or information relating to return of 'I'Sense units then please contact either your supplier or:

ASK Controls Limited

Unit 3-3A, Second Avenue, Poynton Industrial Estate, Poynton, Cheshire, SK12 1ND. Tel: 01625 879 428 / Fax: 01625850856
email: support@askcontrols .com
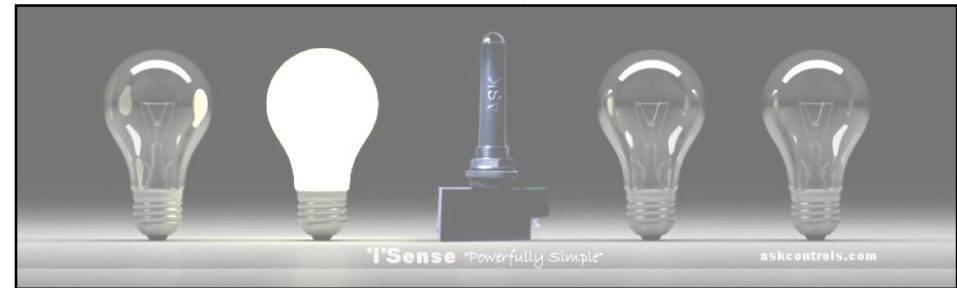
ASK Controls 'I'Sense Node – Site Installation Guide

The ASK Controls 'I'Sense node is an advanced lantern control and monitoring unit designed to be easily installed and commissioned, working independently or in association with the ASK Controls AMS management software. To help produce the maximum potential from an 'I'Sense node it is essential that reference is made to this short guide prior to proceeding with installation.

Typical Layout of 'I'Sense

Collector

'I'Sense Nodes true meshing

Connected by GPRS to ASK AMS system
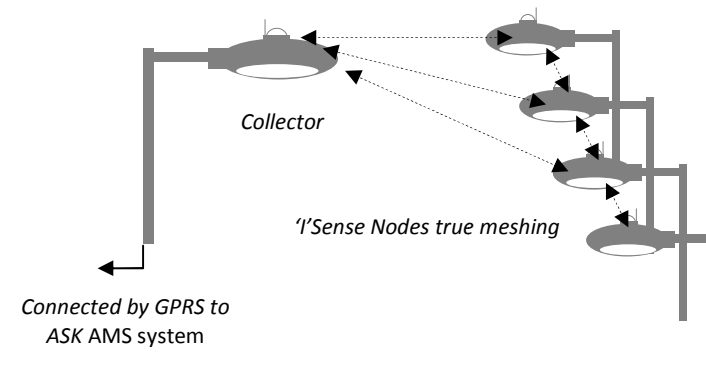
Recommended no greater than 240 nodes to 1 collector to minimize data transfer times. 250m max separation dependent upon site conditions and radio propagation

'I'Sense nodes are self assigning and can also be installed independently of a collector without reference to other parts of the lighting AMS system. The 'I'Sense nodes will operate autonomously as a photocell unit and are factory set to switch at 70/30 lux, this option can be re-configured by the user on site or through the ASK Controls AMS desk top software. Photocell, dimming and switching events can be set and re-set without the need for an installed collector with time attained by the 'I'Sense node from it's internal solar time clock.

Assigning an 'I'Sense node to a collector allows the 'I'Sense node to attain true time and be remotely controlled by the ASK Controls AMS desk top software.
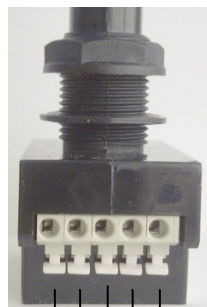
'I'Sense Node

What is supplied?

Item	Number	Description
1	1	'I'Sense Node Unit
2	1	Sealing Gasket
3	1	M20 Lock Nut
4	1	White Slide Washer
5	1	Foam Sealing Washer

Wiring the 'I'Sense Node:

The 'I'Sense Control Node switches up to 10 amp inductive loads and when linked to a compatible dimming ballast can control and monitor the lamp and ballast through DALI. 1-10v is also available through adaptor.

Terminals are provided for:
1 – DALI (Dimming, No Polarity)
2 – DALI (Dimming, No Polarity)
3 – Live Feed
4 – Switch Live
5 – Common Neutral

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000004A399
www.askcontrols.com
NSLDD

Note: Terminals viewed from below Serial ID number (CAP address) is the communications access code required for the CMS/AMS lighting management software. Also provided is a barcode for scanning to database by field units.
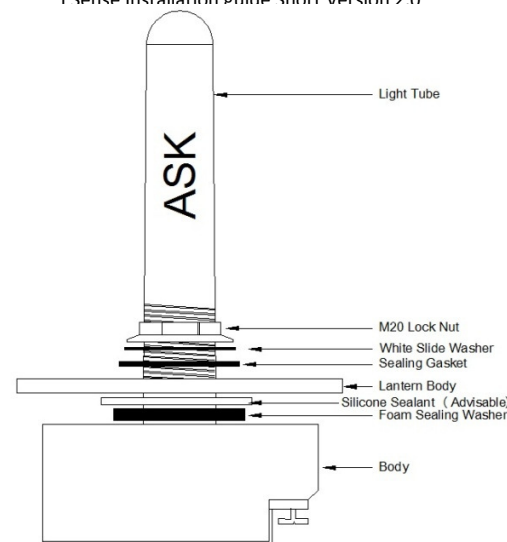
Optional Connector Block Wiring:
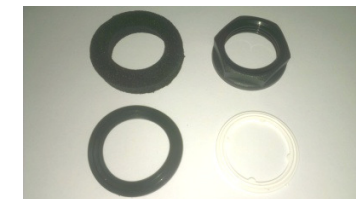
Female Block to 'I'Sense Node

Male Block

The optional Connection Block will allow simple removal of 'I'Sense node if required, for maintenance operations.

For safety reasons the electrical supply must be disconnected before separating the Connector Block or removing the 'I'Sense node.

Light Tube

ASK

M20 Lock Nut
White Slide Washer
Sealing Gasket
Lantern Body
Silicone Sealant (Advisable)
Foam Sealing Washer

Body

Installing in the Lantern

Foam Sealing Washer M20 Lock Nut Sealing Gasket & White Slide Washer

- 'I'Sense Nodes are designed to fit or retro-fit into a 20mm hole in the lantern canopy care must be taken to ensure the light tube is not bent in respect to the body when installed. This may require a second inverted locknut placed at the base of the 'I'Sense Node if the lantern canopy is radiused.
- Radius canopy lanterns may require an enlarged gasket to provide a satisfactory watertight seal, please contact Ask controls who will be able to provide this item.
- Converter Plates are available if the 'I'Sense node is to be used as a replacement for Rotalock (Nema) photocell.
- It is advisable that a thin bead of silicone sealant is used on install as shown.

When fitting the top M20 lock nut suitable torque must be applied as to provide a watertight seal between the 'I'Sense node and lantern. Care should be taken not to excessively tighten the M20 lock nut as this may distort the sealing gasket and/or damage the thread causing a failure of the seal between the 'I'Sense node and lantern.

Energising:

With the 'I'Sense node fitted and the wiring connected to the lamp ballast / DALI driver, note the CAP Address shown on the label on the 'I'Sense node case. This will be required along with details of the ID of the lantern to which it has been fitted for data entry into the CMS/AMS control software. Reconnect the mains supply. The 'I'Sense node will switch on the ballast and the lamp will strike. It is normal for the unit to stay on for up to four minutes as internal system tests are completed and its ID is broadcast. On completion of the self tests, the lamp will switch off (if daylight) and continue in photocell mode until a Collector unit is introduced into the Mesh, the 'I'Sense node will over time assign itself automatically and can then be controlled by the ASK Controls CMS/AMS system.