

UIS Universal Interface - Sensors





Introduction

The UIS Universal Sensor Interface provides a vital link point to integrate multi-sensor devices into any iCANnet network. This compact interface is equiped with a 5-way connector block at one end for the iCANnet link and three RJ12 connectors at the other end for connecting up to three combined sensors or three single purpose sensors, such as PE luminance sensors.

Each multi-sensor can be flexibly configured to use any combination of the sensory elements available. The UIS also features three independent 'Daylight Linking' engines.

Location

The UIS should be installed in a dry ventilated location, where ambient conditions are maintained within the requirements of the unit.

Mounting

Note: All mounting holes are 4mm (0.15 in.) diameter. The two outer holes at either end allow you to attach the unit using plastic ties.

Dimensions



Weight

0.1 Kg

Environmental Data

Temperature: 0°C to +40°C Humidity: 0 to 95% non-condensing

iCAN Network Connections

Connection to the iCAN network is made via a removable 5-way connector block located at one end of the UIS unit:



Function	Network Cable Colours
0V	Black
CAN L	White
Shield	Silver
CAN H	Blue
+12Vdc	Red

IMPORTANT NOTE: Connecting a mains potential cable to the iCAN Network terminals is likley to damage the unit and other devices connected, and invalidate warranty.

iCAN Network Identification

When pressed, the UIS will send an announcement message across the iCAN network.



Network Termination

The iCAN network follows a daisy chain topology that requires termination on the devices located at either end of the network.



The UIS unit is supplied with termination disabled as standard. If it is connected as an end device in the iCAN network, you need to move the jumper to enable termination.

To enable UIS termination, move the jumper from the upper two pins to the lower two pins, as shown here:



Electrical Requirement

The UIS, with up to three multi-sensors connected counts as one standard load on iCANnet (50mA).

Sensor Connection

The UIS has three RJ12 connectors for up to three electrically compatible multi-sensors or single sensor devices in any combination.

Recommended multi-sensor types are: **iLight AXCS01SRJ** Low Voltage Multi Sensor Accessories:

AXCA05RJ: 5m Cable RJ12 to RJ12 (LSOH). AX-FFRJ12: RJ12 to RJ12 Female Coupler. AX-2FIMRJ12: 2 Female to 1 Male RJ12 Coupler.

Philips LRI 8134

Each multi-sensor has the following sensor elements:

- An analogue proximity sensor
- A digital Infra Red (IR) receiver which can be used in conjunction with the iLight HH17IR hand-held remote. The button actions are configurable via iCANsoft.
- An analogue Photo Electric (PE) cell which indicates the light levels in the proximity of the sensor

RJ12 pin outs:

Pin 1 +12V Pin 2 0V Pin 3 +5V Pin 4 PE sensor [0 to 5V or 0 to 10V] Pin 5 IR input [digital 5V] Pin 6 PIR sensor [analogue open collector]

Maximum recommended lead length is 10m (30').

The 5V & 12V supplies for the sensors are regulated and overvoltage protected.

The 12V supply is also current limited to 50mA.

Daylight Linking

The UIS module includes three iLight software driven 'daylight linking' engines.

These three independent controllers provide functionality, which allows iLight source controllers to modify area lighting, based on changing ambient lighting conditions.

At least one multi-sensor or PE sensor needs to be connected to the iCAN system for daylight linking to operate.

One to three multi-sensors, or PE sensors, can have their outputs averaged to provide a larger area to be controlled using a Daylight linking engine.

Lighting is controlled by selecting one of a maximum of seven predefined scenes. The scenes are determined by varying light levels.

For more information on how to configure and use the Daylight Linking function, please refer to the Technical Note: UIS Programming and Daylight Linking Ref: TN105_rev1, available from Eaton Lighting Systems.





All products manufactured by Cooper Controls Ltd and identified with the iLight product series mark are warranted to be free from defects in material and workmanship and shall conform to and perform in accordance with Seller's written specifications.

For detailed warranty information, visit our website at www.coopercontrol.com

This warranty will be limited to the repair or replacement, at Seller's discretion, of any such goods found to be defective, upon their authorized return to Seller. This limited warranty does not apply if the goods have been damaged by accident, abuse, misuse, modification or misapplication, by damage during shipment or by improper service.

There are no warranties, which extend beyond the hereinabove-limited warranty, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTY OF MERCHANTABILITY AND THE IMPLIED WARRANTY OF FITNESS.

No employee, agent, dealer, or other person is authorised to give any warranties on behalf of the Seller or to assume for the Seller any other liability in connection with any of its goods except in writing and signed by the Seller. The Seller makes no representation that the goods comply with any present or future federal, state or local regulation or ordinance. Compliance is the Buyer's responsibility.

The use of the Seller's goods should be in accordance with the provision of the National Electrical Code, UL and/or other industry or military standards that are pertinent to the particular end use. Installation or use not in accordance with these codes and standards could be hazardous.



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