Technical Data

iLumin

NS3-C – Recessed Combination Sensor

Overview

The NS3-C sensor can be connected directly to the iLumin Network via CAN terminals. It features three functions: PIR motion detection, daylight measurement and an infrared (IR) receiver. All three functions may be programmed within the iLumin software according to specific user needs.

This sensor features a coverage of up to 278 ft (8.5m) diameter depending on installation height with PIR detection optimized for slight motion for superior performance.

The PIR feature may be set in Manual or Automatic On with a custom time-out setting.

The daylight feature is used to set light levels where daylighting is required.

In Operational Mode the infrared receiver may select Scenes, turn lighting ON/OFF and adjust levels locally with the iLumin IR Handheld Remote (HH17IR).

The NS3-C sensor's combined features ensure maximum energy savings as well as great flexibility for the user.

Features

- Excellent sensitivity to small movements using Quad-Pyro technology
- Greater sensor stability with reduced noise susceptibility
- 360 degree detection area
- Ceiling flush mounted for a low profile, unobtrusive installation
- Compact 1.9 in (49mm) diameter size for recessed installation
- Connects directly to the iLumin Network
**Specifications**

<table>
<thead>
<tr>
<th>Mounting</th>
<th>2 x Spring Clip</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mounting Hole Diameter</td>
<td>1.6 to 1.7 in (40 to 45mm) diameter depending on ceiling material</td>
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<tr>
<td>Max Recommended Mounting Height</td>
<td>11 ft (3.4m)</td>
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<tr>
<td>Weight</td>
<td>1.2 oz (35g)</td>
</tr>
<tr>
<td>Temperature</td>
<td>32° F to 113° F (0° to 45° C) - non-condensing</td>
</tr>
<tr>
<td>Supply</td>
<td>9 - 24 VDC (Regulated)</td>
</tr>
<tr>
<td>Construction</td>
<td>Circular plastic housing UL94 V0 rated</td>
</tr>
<tr>
<td>Load Data</td>
<td>10mA @ 15V</td>
</tr>
<tr>
<td>Voltage</td>
<td>PELV</td>
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</tbody>
</table>

**Operating Parameters**

- Connects directly to the iLumin Network
- Controls any luminaire anywhere on the system
- Occupancy and Vacancy support
- Light thresholds, Scenes and time-outs programmed & adjusted at any time in software
- Built-in flexibility to suit individual user requirements

**Applications**

- Open office
- Meeting room
- Factory production area
- Small workshop
- Patient room
- Conference room
- Storage room
- School classroom
- Lecture hall
- Public library
- Library (bookstack)
- Corridor
- Staircase
- Foyer
- Hotel lounge
- Shop
- Restaurant

**Coverage**

The differences in the detection zone patterns are indicative of the projections of the 26 lenses with single focal point and with three optical axis. An object whose temperature differs from the background temperature and which crosses inside the detection zone will be detected.

Detection range is typically calculated at the working plane 3 ft (900mm) off the floor.

Detection Area - Zone patterns at the optimal slight motion detection distance of 6.6 ft (2m) from sensor
**Typical Schematic**

**Ordering**

<table>
<thead>
<tr>
<th>Catalog #</th>
<th>Description</th>
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<tbody>
<tr>
<td>NS3-C</td>
<td>Recessed Combination Sensor</td>
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</table>

**Accessories**

**Ordered Separately**

<table>
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<tr>
<th>Catalog #</th>
<th>Description</th>
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<tbody>
<tr>
<td>HH17IR</td>
<td>Remote Control</td>
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</table>

Cable type - Cooper LCCNP (NON PLENUM) OR Cooper LCCP (PLENUM) Cable or Belden™ 1502R (NON PLENUM) or 1502P (PLENUM)  
Maximum segment distance of 1000m/3200ft per segment