Description
The ceiling-mounted 03-HUB sensor array is part of the 03 room control system designed for the modern smart building. The sensor hub replaces multiple room sensors with a one-per-room competitive cost solution when installed together with an 03-DIN room controller.

The sensor hub provides occupant- and location-based control for the modern office or meeting space. Using the 03 mobile app, room occupants can select from a list of preconfigured settings or they can interact with the sensor hub directly to manage room comfort.

Application
The 03-HUB is ideal for a wide range of room applications, such as offices, conference rooms, classrooms and apartments, incorporating location-based services and mobile app interactions into the occupant experience.

Create a flexible room design with wireless devices using the built-in EnOcean® and Bluetooth® technology.

Features
- Combines humidity, composite temperature, passive infrared motion and light sensors in a single device
- Up to 8 sensor hubs per 03-DIN-CPU controller; up to 2 sensor hubs per 03-DIN-SRC controller
- Supports up to 32 EnOcean wireless input devices
- Bluetooth beacon broadcasts identifiers to Bluetooth-enabled smartphones with the 03 app installed
- Full color articulated LED ring provides silent indications to room occupant
- Audio tones provide user feedback

Specifications

Temperature Sensors
Composite temperature value
±0.5°C (±1.0°F) with calibration
Digital temperature sensor
±0.5°C (±1.0°F)
Infrared temperature sensor
±1.0°C (±1.8°F) typical

Humidity Sensor
Accuracy ±3% for 20% to 80% RH
@15°C to 30°C (59°F to 86°F)

Motion Sensor
Passive infrared (PIR) motion sensor
Motion sensing range:
6.7 m (22 ft) diameter @ 3 m (10 ft) mounting height
5.5 m (18 ft) diameter @ 2.4 m (8 ft) mounting height

Audio Input
2 microphones for acoustic occupancy detection

Light Sensor
±(6 + 5% reading) lx

LED Ring
Full color articulated with 12 RGB LEDs

Audio Output
1.0 W mono speaker for tones and audio output

Device Addressing
Rotary switch

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Updated 13 December 2018
03™ Sensor Hub

03-HUB: Integrated Sensor Array

Specifications (Continued)

Connectors
Removable screw-type terminal connectors

Wiring Class
Class 2 / SELV

Power
24 VDC, 1 W typical, 7 W max, Class 2*
*Power can be supplied from an O3-DIN-CPU

Communications
EnOcean (868 MHz or 902 MHz)
Bluetooth Low Energy beacon
(Version 4.2)
O3BUS port (CAN-based)
IR transmitter

Ambient Rating
0°C to 45°C (32°F to 113°F)
10% to 95% RH (non-condensing)

Dimensions
180 × 41.5 mm (7.1 × 1.6 in.)

Weight
350 g (0.77 lb)

Compliance
CE
EAC
FCC/IC
Bluetooh FCC ID: XPYNINAB1
Bluetooth IC ID: 8595A-NINAB1
EnOcean 902 MHz FCC ID:
ZV-STM300U
EnOcean 902 MHz IC ID:
713A-STM300U

Listings
UL 916 Listed

Order an O3-DIN system base unit with one or more hubs or modules:

Base Units

| O3-DIN-CPU | CPU base unit: 3 network ports, 2 Ethernet ports, 3 power outputs, Modbus RTU, NFC |
| O3-DIN-SRC | CPU base unit: 2 network ports, 2 Ethernet ports, 1 power output, Modbus RTU, NFC |

Hubs and Modules

| O3-HUB    | Sensor hub (temperature, humidity, light, motion, Bluetooth, LED ring, microphone and speaker) with mounting plate |
| O3-HUB-En868 | Sensor hub (temperature, humidity, light, motion, Bluetooth, EnOcean 868 MHz, LED ring, microphone and speaker) with mounting plate |
| O3-HUB-En902 | Sensor hub (temperature, humidity, light, motion, Bluetooth, EnOcean 902 MHz, LED ring, microphone and speaker) with mounting plate |
| O3-DIN-4F4xP | FET I/O module: 4 universal I/O, 4 FET binary outputs |
| O3-DIN-8xP | I/O module: 8 universal I/O, input [0–10 V, 0–5 V, 10K] or output [20 mA source, 10 mA sink] |
| O3-DIN-ACCESS | Access module, single door support |
| O3-DIN-DALI | DALI lighting module: DALI interface, 100 mA power output |
| O3-DIN-PoE | Power over Ethernet module |
| O3-DIN-PWRINJ | Power injector module for O3 expansion |
| O3-DIN-SMI | SMI module for motorized blinds: SMI interface, 30 mA power output |
03™ Sensor Hub

03-HUB: Integrated Sensor Array

### Power Supplies

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRC-24V30W1AZ</td>
<td>Chrome Line Voltage DC power supply 24 V 30 W Class A EMC</td>
</tr>
<tr>
<td>DRC-24V60W1AZ</td>
<td>Chrome Line Voltage DC power supply 24 V 60 W Class A EMC</td>
</tr>
<tr>
<td>DRC-24V100W1AZ</td>
<td>Chrome Line Voltage DC power supply 24 V 100 W Class A EMC</td>
</tr>
<tr>
<td>DRS-24V30W1NZ</td>
<td>Sync Line Voltage DC power supply 24 V 30 W Class B EMC</td>
</tr>
<tr>
<td>DRS-24V50W1NZ</td>
<td>Sync Line Voltage DC power supply 24 V 50 W Class B EMC</td>
</tr>
<tr>
<td>DRS-24V100W1NZ</td>
<td>Sync Line Voltage DC power supply 24 V 100 W Class B EMC</td>
</tr>
</tbody>
</table>

### Passive Infrared Motion Coverage

<table>
<thead>
<tr>
<th>Mounting Height</th>
<th>PIR Sensing Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 m (10 ft)</td>
<td>6.7 m (22 ft)</td>
</tr>
<tr>
<td>2.4 m (8 ft)</td>
<td>5.5 m (18 ft)</td>
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</tbody>
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