Open Loop Daylight Sensor/IR Receiver

Overview

The DSRC-FMOIR is an open loop daylight sensor that measures the natural light contribution in order to automatically adjust lighting zones. It is part of the Room Controller and DLVP system and provides three easily distinguished light levels, Low (3-300 lux), High (30-3000 lux) and Direct Sun (300-30000 lux). The sensor range can be adjusted using the IR handheld programmer.

Features

- RJ45 connection
- Easily installed in suspended fixture or drop ceiling
- Three light sensor ranges (3-300 lux, 30-3000 lux, 300-30000 lux)
- Feedback LED
- Mounting bracket for installation in light well or hard ceiling
- IR receiver for handheld remotes
Specifications

| Electrical  | Class 2, LPS          |
| Voltage    | 24 VDC supplied controller |
| Connection | RJ45                 |
| Light Sensor Range | Low: (3-300 lux) |
|             | High: (30-3000 lux) |
|             | Direct Sun: (300-30000 lux) |
| Status Indicator | Multi-function Red and Green LEDs |
| Size       | Sensor Head: 2” x .5” |
|            | Mounting stem: .75” x .75” |
| Operating Environment | Temperature: 32°F to 104°F (0°C to 40°C) |
|            | Less than 95%, non-condensing |
|            | For indoor use only |
| Standards  | UL 508 Listed        |

Description/Operation

The DSRC-FMOIR is powered by the Room Controller or DLVP power module Class 2 power supply and is pre-configured to automatically adjust the dimming zones based on the natural light contribution. The DSCM-MT mounting bracket allows the daylight sensor to be mounted to a hard ceiling or a light well. The handheld remote programmer simplifies light sensor range setting by using simple language to describe the ranges (Low, High, Direct Sun) in addition to standard foot candle values. Individual zone control buttons allow the lighting levels and dimming curves to be adjusted.

Installation

Low-voltage devices are connected using pre-terminated control cables (ordered separately).
**Applications**

**Sidelight Applications**

- Mount the daylight sensor one to two times the window height from the window wall.
- Position the sensor so its arrow is pointed toward the nearest window.
- Ensure the daylight sensor is not obstructed or looking directly at electric light.
- For narrow spaces mount the daylight sensor near the window, facing into the space.

**Skylight Applications**

- Position the sensor so its arrow is pointed toward the nearest window.
- Ensure the daylight sensor is not obstructed or looking directly at electric light.
- For narrow spaces mount the daylight sensor near the window, facing into the space.

**Mounting**

**Ceiling Mounting**

- Mounting screws
- Ceiling
- Adjustable daylight sensor dome
- Daylight sensor viewing lens
- RJ45 to RJ45 coupler (GGRC-COUPLER)
- Locking washer

**Light Well Mounting with DSCM-MT**

- Mounting screen
- Skylight wall mounting bracket (DSCM-MT)
- Adjustable daylight sensor dome
- Sky light sensor viewing lens
- RJ45 to RJ45 coupler (GGRC-COUPLER)
- Locking washer

**Sample Room Controller System Topology**

**Handheld Remote Programmer HHPRG-RC**

- Daylight Settings
- Zone Control
- Room Controller Programming HHPRG-RC

**Personal Remote HHPR-RC**

- Room Controller Personal Remote HHPR-RC
DLVP System Topology

Programming Remote  
(LVHH-01)  

Personal Remote  
(LVHH-02)  

Open Loop Daylight Sensor/IR Receiver
## Ordering

<table>
<thead>
<tr>
<th>Catalog #</th>
<th>Description</th>
<th>Connection</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSRC-FMOIR</td>
<td>Open Loop Daylight Sensor/IR Receiver (GGRC-COUPLE included)</td>
<td>RJ45</td>
<td>Low (3-300 lux) High (30-3000 lux) Direct Sun (300-30000 lux)</td>
</tr>
<tr>
<td>DSCM-MT</td>
<td>Daylight Sensor Mounting Bracket</td>
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<td></td>
</tr>
</tbody>
</table>

### Optional Accessories

#### Room Controller
- HHPRG-RC: Handheld daylight zone remote programmer
- HHPR-RC: Room Controller Personal Remote

#### DLVP
- LVHH-01: DLVP Programming Remote
- LVHH-02: DLVP Personal Remote