DALI-2 multi-discipline microsensor

delmatic

Delmatic's sixth-generation multi-discipline minisensor extends digital monitoring capabilities beyond lighting presence and daylight control to include environmental temperature and humidity measurement.

The software-defined smart sensor measures presence and absence, ambient light, temperature and humidity along with active infra-red communication for configuration and user adjustment: the sensor is available in a wired DALI-2 format or with wireless connectivity and BLE Bluetooth® capabilities.

The multi-discipline microsensor forms part of Delmatic's network of sensors, controllers and software, with optional green features including hours-run monitoring, virtual energy monitoring and energy use analysis dashboards.

product ref: **164D2-MD**

features

Passive infra-red PIR sensor. Software-configurable **presence/absence** detection mode and software-adjustable time-out.

Light level sensor for **daylight linking/harvesting**. Software-configurable default illumination levels, photocell thresholds and other parameters.

Active infra-red receiver for user adjustment and task tuning of lighting levels and scenes, temperature, blinds/shades and other services.

High resolution temperature sensor for real-time monitoring of space temperature for BACnet / MQTT sharing with iBMS/BOS.

High resolution humidity sensor for real-time monitoring of space humidity for BACnet / MQTT sharing with iBMS/BOS.

DALI-2 tested and independently qualified by DiiA DALI Alliance.

also available with full wireless connectivity and BLE Bluetooth® beacon capabilities.

technical details

occupancy sensor:	passive infra-red. quad element
detection diameter:	5m at 2.5m mounting height
lux sensor:	photo-diode. accuracy: +/-5% across range
temperature sensor:	range: 5˚C to 50˚C. ±0.5 °C accuracy
humidity sensor:	range: 20% to 80% RH. ±3.0 %RH accuracy
height (above ceiling):	30 mm plus cable
depth (below ceiling):	1 mm
body diameter:	39 mm
bezel diameter:	49 mm
cut-out diameter:	40 mm

design and mounting

The compact, low-profile design of the sensor incorporates a slim bezel and flat lens which blends discretely into the ceiling.

A compact adaptor is also available to suit surface-mount besa-box installations.