

# KT200 Sensor DALI Extender Kit

## Specification Sheet

The KT200 kit adds sensing and control capabilities to any DALI-2 luminaire and connects wirelessly with Signify Interact for Intelligent Buildings, enabling smart, connected lighting solutions.
The kit includes a motion and daylight sensor, a DALI Extender, a recessed mounting accessory, and a connection wire. The sensor is D4i certified and powered via the DALI Extender. The sensor fits into a Zhaga Book 20 rectangular slot and is mounted in a recessed mounting accessory.
The DALI Extender bridges the sensor bus to the DALI bus, enabling control of multiple DALI-2 luminaires. The kit is compatible with DALI-2 luminaires with or without energy data reporting capabilities.

## Safety

| Warning | |
|---|---|
| • Avoid touching live parts.<br>• Do not use drivers with damaged housing and/or connectors.<br>• Do not use drivers with damaged wiring. | • Do not use damaged or defective contacts or housings.<br>• Do not use damaged products. |

## Functionality

### Features

- Supports occupancy sensing and daylight harvesting via the SC200 sensor.
- Extends SR/D4i  bus to DALI bus using DALI Extender, supporting up to 20 DALI-2 drivers.
- Includes SA0700 recessed mounting accessory for recessed installation.
- Includes a wire for reliable connectivity between the sensor and the DALI Extender.

### Benefits

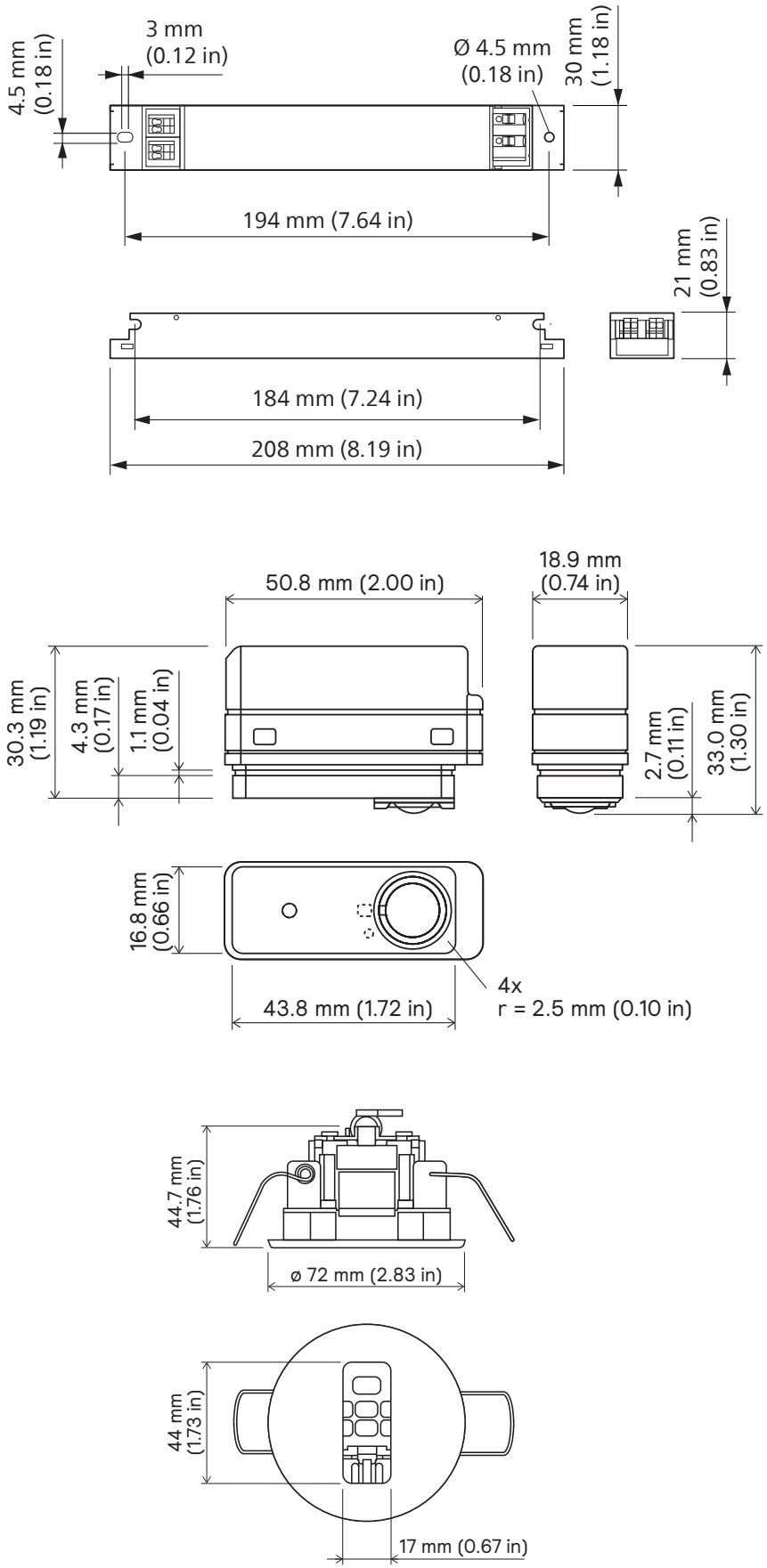
- Supports integration with Signify Interact for Intelligent Buildings systems across office, education, and healthcare environments.
- Controls luminaires via DALI-2.
- Compatible with any DALI luminaire equipped with a DALI-2 driver, supporting:
  - » Device Type 8 (DT8 – Tc, Tunable White)
  - » Device Type 6 (LED driver)

  This includes DALI-2 luminaires that are not Interact-ready.
- Supports luminaires with DALI-2 drivers, with or without DALI Parts 251, 252, and 253. When present, these parts enable energy data reporting and diagnostic functions in PRE and PRA.
- Ideal for retrofit projects connecting Interact discrete sensors to existing DALI luminaires.

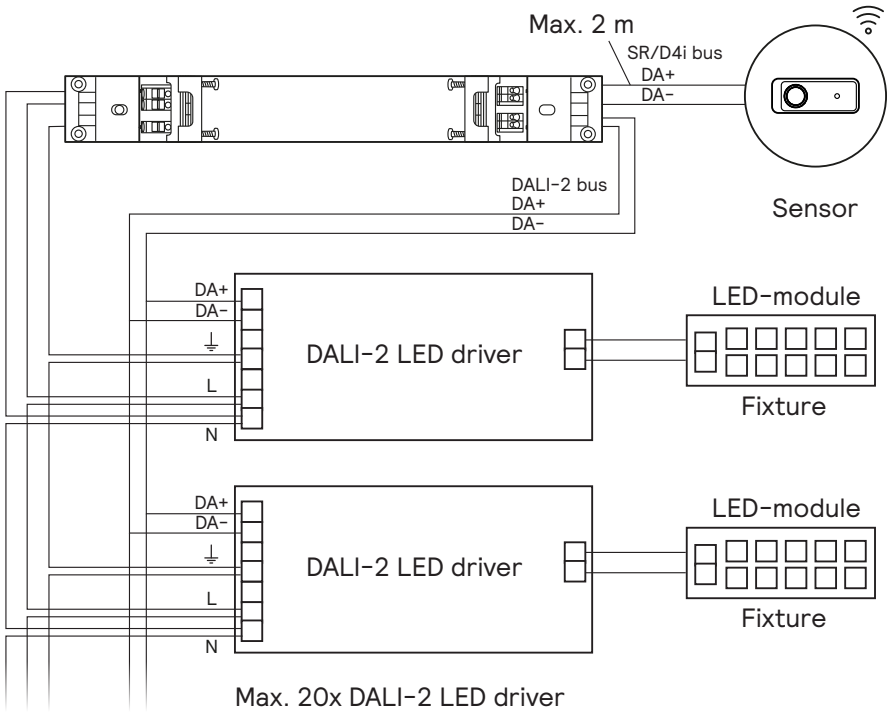
### Products in kit

- SC200 sensor WH (9137 010 69403)
- DALI Extender (9137 010 66203)
- SA0700 recessed mounting accessory (9137 010 77503)
- Wire

## Dimensional drawing



## Wiring drawing

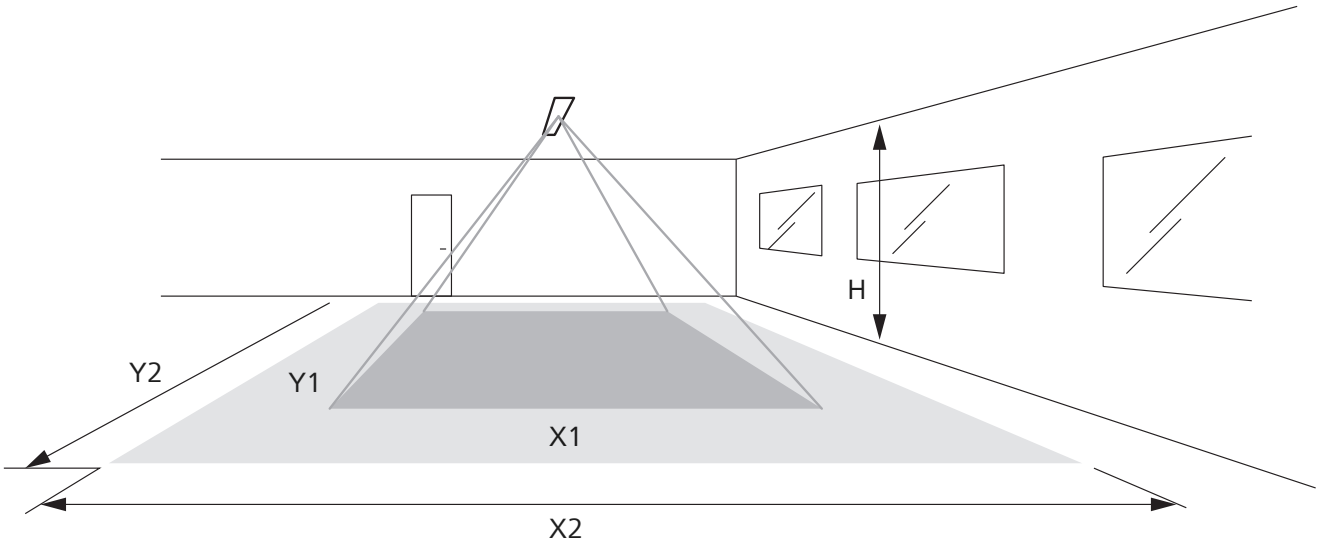


### Zigbee

The SC200 sensor supports the Zigbee IEEE 802.15.4 standard and can receive firmware updates wirelessly.

### Occupancy sensing

The values in the table below are tested at 21°C ±3°C (70°F ±5°F) according to the occupancy sensing test standard NEMA WD 7-2011.








| Height | Minor Movement | | Major movement | |
|---|---|---|---|---|
| H | X1 | Y1 | X2 | Y2 |
| 2.4 m (7.9 ft) | 2.7 m (8.9 ft) | 2.7 m (8.9 ft) | 4.5 m (14.8 ft) | 4.5 m (14.8 ft) |
| 2.8 m (9.2 ft) | 3.6 m (11.8 ft) | 3.6 m (11.8 ft) | 5.4 m (17.7 ft) | 5.4 m (17.7 ft) |
| 4.0 m (13.1 ft) | 3.6 m (11.8 ft) | 3.6 m (11.8 ft) | 5.4 m (17.7 ft) | 5.4 m (17.7 ft) |
| 6.0 m (19.7 ft) | n.a. | n.a. | 5.4 m (17.7 ft) | 5.4 m (17.7 ft) |

**Note:**

- As PIR based sensing works on the difference between subject's temperature and ambient temperature, the occupancy detection could vary due to clothing and size of the subject. The sensor detection area will decrease when the difference in subject's temperature and ambient temperature is approximately 5 °C or less.
- The shielding cover of the sensor is in the housing. It can be removed and placed to partially shield the detection area.

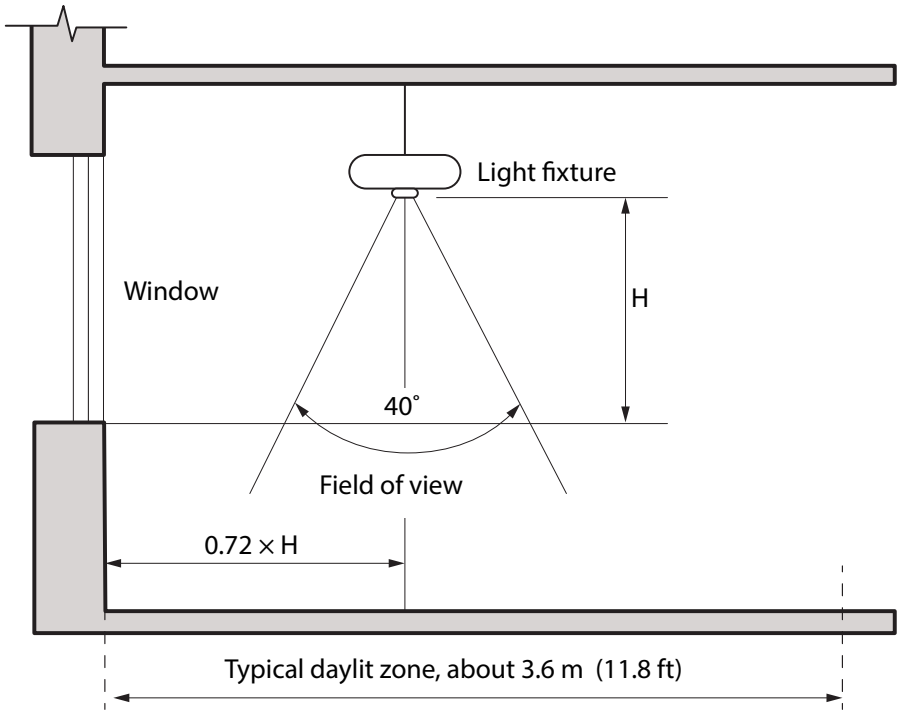
### Ambient light sensing

The SC200 features a high-accuracy ambient light sensor. It measures the desk or floor light level in office environments and reports the lux value via Zigbee to the system to support features such as Dynamic Daylight Regulation (DDR).

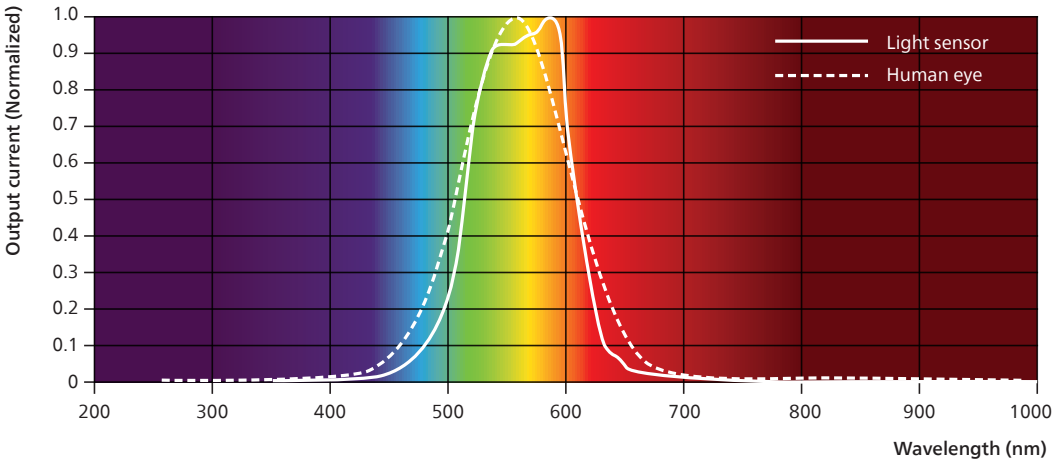
The following aspects must be considered during installation:
- Minimum distance from the window ≥ 0.6 m (2 ft).
- Prevent outside light reflections from entering the sensor (for example sunlight reflection on a car bonnet) as this will lead to incorrect light regulation.

As a guideline the formula 0.72 × H can be used to calculate the minimum distance between the window and sensor whereby H is the height from the bottom of the window to the sensor.

Photosensor spatial response




Photosensor spectral response



## Technical specifications [1, 2]

| Environment | |
|---|---|
| Operating ambient temperature | -40 to +60 °C |
| Storage temperature | -40 to +85 °C |
| Operating relative humidity | 10 to 90%, non-condensing |
| Storage relative humidity | 5 to 95%, non-condensing |
| Protection rating | IP20 |

| Dali Extender – Electrical data | |
|---|---|
| Input voltage (AC) | 220–240 V (±10%) |
| Input frequency | 50–60 Hz |
| Emergency input (DC) | 186–250 Vdc |
| Standby power | 0.5 W (no load) |
| SR port output | 12–20.5 Vdc; 92 mA min; 125 mA max |
| DALI port output | 12–20.5 Vdc; 52 mA min; 70 mA max |
| Surge protection (diff./ common) | 2 kV / 4 kV (input); SR: 0.03/0.25 kV; DALI: 0.5/1.0 kV |

| SC200 sensor – Electrical data | |
|---|---|
| Input voltage | 12–22 V |
| Input current (typical / max) | 9 mA / 20 mA @ 12 V |
| Typical input power | 140 mW |

| Compatible standards/technologies | |
|---|---|
| Zigbee and Bluetooth Low Energy (BLE) communication distance* | 15 m (49.2 ft) (line of sight, package error rate <1%) |

*15 m is the typical LoS range. Actual RF distance varies with luminaire design, mounting height, and installation conditions.

| Compliances | |
|---|---|
| Approbations | CE, UKCA |

[1] Shown are the most relevant specifications of the combined components of the RF-DALI connector.

[2] See the specification sheets of the respective components for more information.

## Order code

| Product name | MOQ | Order code | Region of sale |
|---|---|---|---|
| KT200 Sensor DALI Extender Kit | 1 | 9137 010 77603 | Europe, APAC, LATAM |

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