

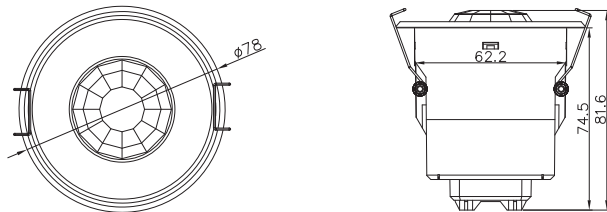
1 Safety Information



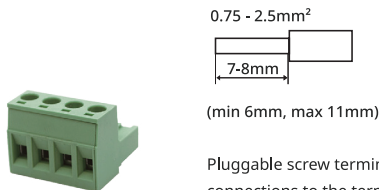
WARNING

- Installation by a qualified electrician only and in accordance with local electrical regulations.
- Disconnect mains power before installation, wiring, maintenance or replacement.
- Failure to follow the wiring diagram may result in product damage and malfunction.
- Do not connect mains voltage (L/N) to the DALI terminals.
- For polarity-marked DALI terminals (DA+/DA-), observe correct DALI polarity.
- For non-polarity-marked DALI terminals (DA/DA), DALI wiring is polarity-free.
- Typical DALI bus current consumption per driver is approximately 2 mA. Before installation, calculate the total bus current consumption of all devices connected to the same DALI bus. Ensure that the total current consumption does not exceed the guaranteed supply current of the DALI bus power supply, and allow sufficient system margin.
- This product has been tested in accordance with IEC 62386 and complies with the relevant DALI-2 application parts. DALI-2 testing was performed using the official DALI test sequence software (version 2.3.3.0), covering the applicable IEC 62386 parts (e.g. Part 101, Part 103). DALI-2 certification verifies compliance within the defined test scope. However, certification does not eliminate the possibility of system-level compatibility issues arising from differences in device implementation or system design among manufacturers. Therefore, functional verification and on-site testing are required as part of the final system commissioning to ensure proper operation and compliance with project requirements.
- HIR27 series products are available with two Hold Time behaviors after Manual OFF mode is activated:
 - Accumulated Hold Time: Motion detected during Hold Time will restart the countdown. Example: 30s Hold Time + motion after 20s = 50s total time period.
 - Fixed Hold Time: Motion detected during Hold Time will not restart the countdown. Example: 30s Hold Time + motion after 20s = 10s remaining. Unless otherwise specified, products may be supplied with either configuration. If a specific configuration is required, please confirm with your sales representative before ordering.

3 Technical Drawing (Unit: mm)



4 Wire Preparation

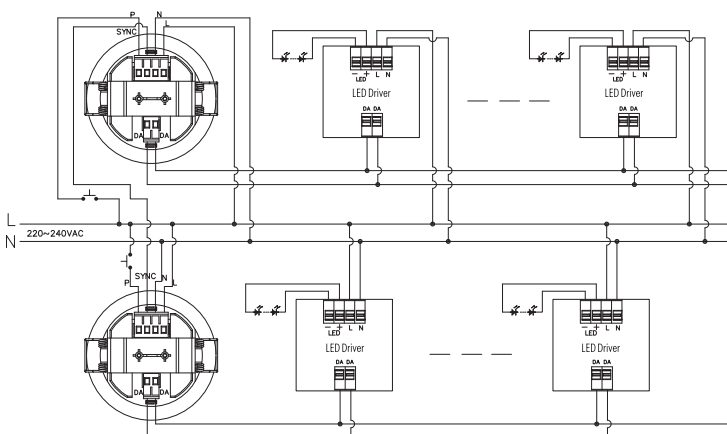


(min 6mm, max 11mm)

Pluggable screw terminal. It is recommended to make connections to the terminal before fitting to the sensor.

- 200 metres (total) max. for 1mm² CSA (Ta = 50°C)
- 300 metres (total) max. for 1.5mm² CSA (Ta = 50°C)

5 Wiring Diagram

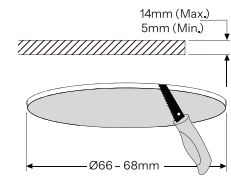
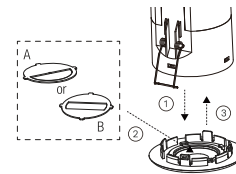


2 Specifications

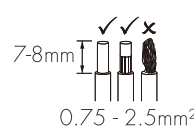
Dimming (Output) Interface	DALI/DALI-2
DALI bus maximum rated current (I _{n max})	80 mA
DALI bus nominal DC voltage range (Un)	16 V
DALI bus nominal current (I guaranteed)	64 mA
Detection angle	360°
Max. Detection range (Diameter)	10.0 m
Maximum Mounting Height	6.0 m
Detection area	78 m ²
Sensitivity	10% / 50% / 75% / 100%
Detection Methods	Passive Infrared (PIR)
Operating voltage range	220-240 VAC 50/60 Hz
Stand-by power (Psb)	<0.5W
Warming-up	20 s
Ambient temperature	-20 ~ +50 °C
Storage temperature	-40 ~ +70 °C
Humidity max	10 ~ 90%
IP Rate	IP20 / IP54

6 Installation Process

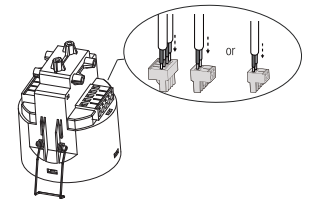
- Optional: If a detection blind is required, detach the lens cover, select the suitable detection blind and place it above the lens, then refit the lens cover onto the sensor body.
- Ceiling cut-out (hole Ø 66-68mm).



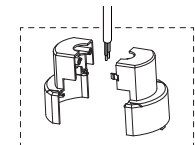
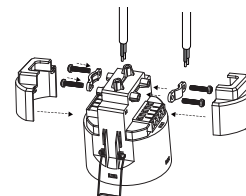
- Prepare the cables correctly.



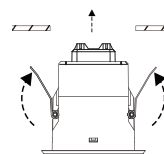
- Connect the cables to the pluggable terminal blocks according to the wiring diagram.



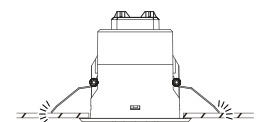
- Secure the cables with screws and cable clips for better stability. Install the standard back caps (or replace with the high back cap HA08 for larger wire diameter if necessary).

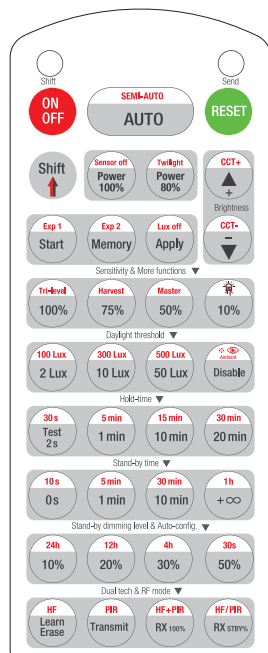


- Bend the spring clips upwards and fit the sensor into the ceiling cut-out.



- Spring clips will release and secure the sensor in the ceiling.





	Press "ON/OFF" to set the luminaire to permanent ON or OFF mode. Press "AUTO" or "RESET" to exit this mode and resume normal sensor mode. Note: After mains power is disconnected and restored, the sensor will automatically return to AUTO mode.
	Press "RESET" in any state to resume the sensor to AUTO mode. For models with DIP or rotary switches, the parameters will follow the current DIP or rotary settings. For models without DIP or rotary switches, the parameters will restore the factory default settings. Resettable parameters: operating mode, brightness, sensitivity, hold-time, stand-by time and daylight threshold. *This product is set by default to: Auto mode; Detection range 100%; Hold-time 5min; Daylight threshold disable; Lux off activated.
	Press "Shift" to activate the auxiliary function layer. The top-left indicator will light up for 20sec, indicating the mode selection status. Each button will switch to the red-marked function shown on its upper half.
SEMI-AUTO	Press "Shift" first. After the red indicator lights up, press "SEMI-AUTO". In this mode, the load can only be switched ON manually via the PUSH switch. Each time the load switches off, it must be switched on again manually via the PUSH switch. Press "AUTO" or "RESET" to exit this mode and resume AUTO mode. Note: • Lux ON function is disabled in SEMI-AUTO mode. • The sensor indicator will light up for 2sec to confirm the mode change from AUTO to SEMI-AUTO.
AUTO	Press "AUTO" to enter automatic sensing mode. The sensor will exit ON/OFF or SEMI-AUTO mode and resume automatic operation. All parameters will remain as previously set.
Twilight	Press "Shift" first. After the red indicator lights up, press "Twilight". In this mode, motion detection is disabled and only daylight control remains active. The device works as a daylight sensor only. Press "AUTO", "SEMI-AUTO" or "RESET" to exit this mode.
Power 100% Power 80%	Press "Power 100%" or "Power 80%" to set the maximum brightness accordingly. The selected brightness will be memorized by the sensor. In OFF mode, pressing either button will turn on the luminaire and set the maximum brightness at the same time.
	Press this button to adjust brightness. The transition from maximum to minimum brightness or vice versa takes 6–10sec. The dimming range is 1%-100% and limited by the Power 80% / 100% setting. For devices with daylight harvest function, this button is used to adjust the target Lux level.
Start Memory Apply	Press "Start" to enter study mode. Select the required parameters in the corresponding areas (Sensitivity, Daylight threshold, Hold time, Stand-by time and Stand-by dimming level). Press "Memory" to store the parameters, then press "Apply" to send the parameters to the sensor. The same parameter group can be applied to multiple sensors at the same time. "RESET" will not clear the parameters stored in "Memory".
Lux off	Press "Shift" first. After the red indicator lights up, press "Lux off" to enable or disable this function. The indicator flashes for 1sec when enabled and for 2sec when disabled. "Lux off" function is enabled by default. During hold time and stand-by time, if ambient light remains above the preset threshold for more than 5min, the luminaire will switch OFF. When stand-by time is set to ∞, the luminaire will turn on automatically and enter the stand-by dimming level (Lux on) when the ambient light meets the preset Lux condition for 10sec. When "Lux off" function is disabled, the luminaire will not switch off automatically due to excessive ambient light and will operate only based on hold time and stand-by time settings.
100% 75% 50% 10%	In AUTO or SEMI-AUTO mode, press the buttons in the "Sensitivity" area to set the detection range as required. The setting overrides the DIP switch settings and is saved in memory.
2 Lux 10 Lux 50 Lux 100 Lux 300 Lux 500 Lux	Press the buttons in the "Daylight threshold" area to set the starting Lux level as required. The setting will override the DIP switch settings and be stored in the sensor memory. Note: Red-marked options require pressing "Shift" first.
	Press "Shift" first. After the red indicator lights up, press "Ambient". The load will switch off, and the sensor will learn the current ambient Lux level and set it as the starting / target threshold. During learning, the buzzer will beep 5 times, followed by 1 long beep when learning is complete. The system will store the current brightness and enter "AUTO" mode. The luminaire will then turn on only when motion is detected. If the learned Lux level exceeds the device's saturation limit, the buzzer will beep rapidly 10 times and the daylight threshold will be set to Disable. Note: If DIP switches are equipped, their settings and the remote-control settings override each other, and the latest setting takes priority.
Test 2s 30s 1 min 5 min 10 min 15 min 20 min 30 min	In "AUTO" or "SEMI-AUTO" mode, press the buttons in the "Hold-time" area to set the hold time as required. The setting will override the DIP switch settings and be stored in the sensor memory. Note: • Red-marked options require pressing "Shift" first. • The 2s button is for test mode only. In this mode, stand-by time and daylight control are disabled. Press "RESET" or any button in the "Hold-time" area to exit this mode.
0s 10s 1 min 5 min 10 min 30 min +∞ 1h	Press the buttons in "Stand-by time" area to set stand-by time as required. The setting will override the DIP switch settings and be stored in the sensor memory. Note: +∞ indicates bi-level control. In this mode, the luminaire turns on at 100% brightness if motion is detected, and switches to stand-by dimming level after the stand-by time. Meanwhile, the "Lux off" function is disabled. The luminaire will turn on and enter the stand-by dimming level only when ambient Lux is below the preset threshold.
10% 20% 30% 50%	Press the buttons in the "Stand-by dimming level" area to set the stand-by dimming level as required. The setting will override the DIP switch settings and be stored in the sensor memory.
24h 12h 30s 4h	Press "Shift" first, then select the required self-testing time. During the testing period, the luminaire remains at 100% brightness and will not switch off, while the sensor continuously measures ambient light to set the lowest value as the target Lux level. After completion, the sensor will enter "AUTO" mode with all other parameters unchanged. Note: The self-testing period must include nighttime. This function is only available for daylight harvesting products.

Note: Only shows the remote-control functions supported by this product. Functions not shown are not available for this product.
For the complete remote controller function list, please refer to the product datasheet.

Malfunction	Possible Cause	Remedy
Fixture does not light up	Incorrect daylight threshold setting	Adjust daylight threshold setting
	Faulty fixture	Replace fixture
	No power supply	Check power to sensor
	Detection zone not targeted	Check detection area setting
Fixture is always on	Continued movement in the detection zone	Check detection area setting
Fixture turns on unexpectedly	Sudden temperature change, airflow, open windows or weather influence	Adjust zone, change installation site