HF Aisle Sensor with DALI Control 99 190 25

Installation and Instruction Manual

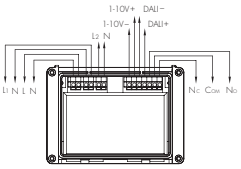
1. Technical Specifications

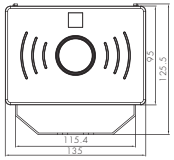
Product type	Independent DALI sensor (Daylight harvest)
Operating voltage	120~277VAC 50/60Hz
Switched power	2 x 2000W (resistive) 2 x 800W (capacitive)
Power consumption	< 1W
Detection angle	360°
Detection range	10% / 50% / 100%
Hold time	2s / 30s / 1min / 5min / 10min / 30min
Stand-by time	0s / 10s / 1min / 10min / 30min / + ∞
Stand-by dimming level	10% / 20% / 30%
Daylight threshold	2 ~ 50Lux , Disable
Warmming-up time	20s
Operating temperature	-20°C ~ +50°C
IP rating	IP65

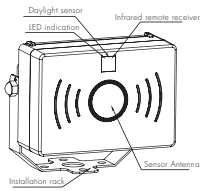
2. Instruction and Dimension

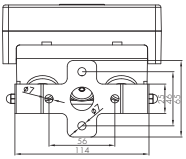
⚠ Warnings:

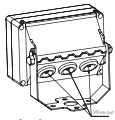
1. Installation of the sensor involves connecting it to the mains supply. This work must be carried out by a specialist in accordance with electrotechnical regulations.
2. Disconnect supply before installing.

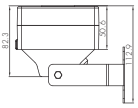


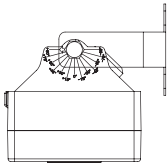












Varning!

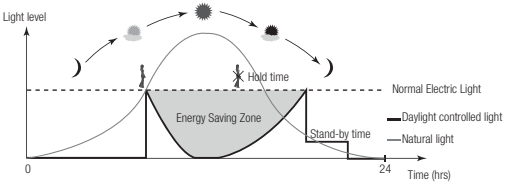
Stäng av strömmen, ta ut säkringen på elcentralen eller ställ automatsäkringen till läge "AV", innan installationsarbetet påbörjas.

Skall installeras av behörig installatör och i enlighet med gällande föreskrifter.

3. Functions

3.1 Daylight Harvest (Daylight Regulating)

Daylight sensor measures the available surrounding natural light, calculates how much electrical light is needed to reach the total lux expected. The demand is given to the LED driver by DALI signal, so as to deliver the needed amount of electric light.



3.2 Dry Contact Control

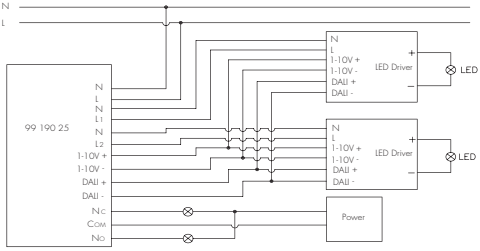
Sometimes also know as "Potential-Free" or "Volt-Free" sensor, the dry contact sensors from Hytronik are designed to operate with external monitoring systems. They operate as conventional occupancy sensors, with the output available as shown in the table below:

Detection State	Contacts Made
Presence	No - Com
Absence	Nc - Com

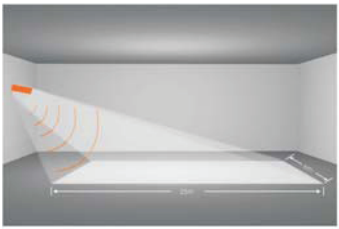
3.3 Loop-in and loop-out

Double "L" "N" terminal makes it easy for wire loop-in and loop-out, and saves the cost of terminal block and assembly time.

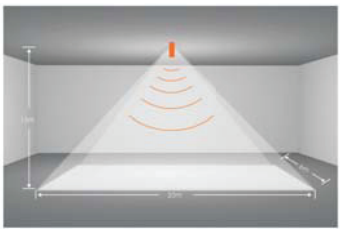
4. Wiring Diagram



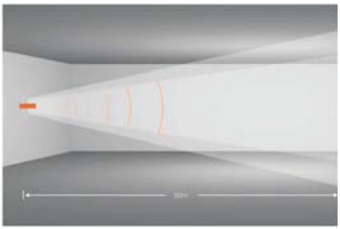
5. Detection Pattern



25m x 6m coverage @ 8m mounting height



25m x 6m coverage @ 15m mounting height



50m detection length @ 5m mounting height

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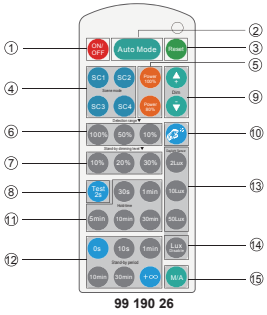
6. Description of the Button Functions (remote control 99 190 26)



Note: the buzzer beeps one time when RC receives signal successfully

Permanent ON/OFF [button ①]

1. Press button①, to select permanent ON or permanent OFF mode.
2. Press button② ③ ④ to resume automatic operation. (Please refer to explanation below)

Auto Mode [button ②]

Press button② to in initiate automatic mode.The sensor starts working and all settings remain as before the light was switched ON/OFF.

RESET [button ③]

Press button③, all settings go back to the values as below:
Detection range: 100% Hold-time: 5min
Stand-by period: 10min Stand-by dimming level: 10%
Daylight sensor: disabled

Test 2s function [button ⑧]

1.Press button⑧, the sensor goes into testmode (hold time 2s).
N.B. the stand-by period and daylight sensor settings are disabled in test mode.
2.Press button ③④⑰ to exit from this mode, and the sensor settings are changed accordingly.

Ambient daylight threshold [button ⑩]

Press button⑩, the latest surrounding lux value overwrites previous lux value learned, and is set as the daylight threshold. This feature enables the fixture to function well in any environment.

Power output [button ⑤]

Press button⑤, the output shifts between 80% and 100%, for energy saving purposes.

Dim +/- [button ⑨]

Press button⑨ to adjust the light brightness between 10%~100% during hold-time. "+" increases the light level, "-" will decrease the light level.

Lux disable [button ⑭]

Press button⑭, the built-in daylight sensor is disabled, the light will always operate upon detection regardless of ambient light level.

Manual override/ Semi-auto [button ⑮]

Button⑮ is disabled.

Detection range [zone ⑥]

Press buttons in zone⑥ to set detection range at 100%/50%/10%.

Hold time [zone ⑪]

Press buttons in zone⑪ to set hold time at 30s / 1min / 5min / 10min / 30min.

Stand-by period [zone ⑫]

Press buttons in zone⑫ to set the stand-by period at 0s / 10s / 1min / 10min / 30min / +∞.
Note: "0s" means on/off control; "+∞" means bi-leve of dimming control, the light will never switch off. (i.e. the light remains at the stand-by dimming level until motion is detected.)

Stand-by dimming level [zone ⑦]

Press buttons in zone⑦ to set the stand-by dimming level at 10% /20%/30%.

Daylight sensor [zone ⑬]

Press buttons in zone⑬ to set daylight sensor at 2lux / 10lux / 50lux.

Scene mode options [zone ④]

There are 4 scene modes built into the remote control for different applications:

Scene options	SC1	SC2	SC3	SC4
Detection range	100%	100%	100%	100%
Hold time	1min	5min	10min	10min
Stand-by period	10min	10min	30min	+ ∞
Stand-by dimming leve	10%	10%	10%	10%
Daylight sensor	2Lux	2Lux	10Lux	50Lux

Note: the end-user can fine tune the settings by pressing buttons of detection range⑥ / hold time⑪ / stand-by period⑫ / stand-by dimming level⑦ /daylight sensor⑬, the last setting will over-write that feature of the pre-set scene.

7. Trouble Shooting

MALFUNCTION CAUSE REMEDY	CAUSE	REMEDY
The 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
The fixture is always on	Continued movement in the detection zone	Check detection area setting
The fixture is on when it should not	Sudden change in temperature due to weather (wind, rain, snow) or air expelled from fans, open windows	Adjust zone, change installation site