

# **Sensor DALI Independent**

El nr	32 238 94
Article nr	931104
EAN	7090015373216



### Tekniske data

Spenning	230VAC 50/60Hz
Standby power	<0,5W
Switched power	Max 15 devices, 30mA
Warm up	20s
Holdetid	30s/1min/5min/10min/20min /30min
Stand by periode	0s/10s/1min/5min/10min/30 min/1h/+∞
Stand by dimmenivå	5%/10%/20%/50%
Dagslysnivå	Disable/50Lux/10Lux/2Lux
Sensor principle	Microwave motion detector
Mikrobølgefrekvens	5,8GHz +/- 75 MHz
Mikrobølge effekt	<0,2mW
Deteksjonsområde	Maks (øxH): 12mx6m
Deteksjonsvinkel	30-150 grader
Omgivelsestemp	-35°C - +70°C
Levetid	50000 timer



Туре	
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### **Beskyttelse**

Isolasjonsklasse		Klasse II	
	IP-grad	IP20	

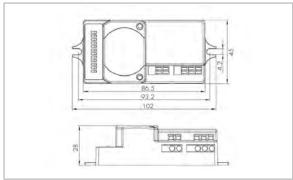
# Materialer og overflater

Armaturhus	Plastic
Farge	Hvit

# Energi og godkjenning

Godkjenning	CE, CB, Semko, RED, RoHS	
Safety standard	EN 60669, AS/NZ60669	
EMC standard	EN 55015, EN 61000	
RED	EN 300440, EN 301489, EN 62479	





# Montering/Tilkobling

Montering	Innfelling
Kobling	Hurtigklemmer

# Dimensjoner (mm)

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Lengde (L)	102 mm
Bredde (W)	45 mm
Høyde (H)	28 mm
Vekt	0,07 kgs

# **Forpakning**

Eske dimensjon	107x50x30,3 mm
Eske Vekt	0,082 kgs
Kartong Dimensjon	515x315x230 mm
Antall/Kartong	100 stk
Kartong Vekt	8,2 kgs



## **Instruction Manual for Independent DALI Sensor**

**Article Nr.: 931104** 

#### **Technical Specifications**

PRODUCT TYPE: DALI microwave motion sensor

HF SYSTEM: 5.8GHz CW radar OPERATING VOLTAGE: 120-277VAC 50/60Hz

DALI OUTPUT: Approx. 30mA or Max.15 devices

TRANSMISSION POWER: <0.2mW
DETECTION ANGLE: 30°~150°

DETECTION RANGE: Max. 12 meters in diameter, adjustable

TIME SETTING: Test (2s), 30s ~ 30min.

STAND-BY PERIOD: 0s, 10s ~ 1h, +∞ STAND-BY DIMMING LEVEL: 5%~50%

LIGHT CONTROL: 2~50Lux; disable

MOUNTING.

MOUNTING: Indoors, ceiling & wall mounted

**WORKING TEMP.:** -35 ~ +70 °C

The sensor is an active motion detector; it emits a high-frequency electro-magnetic wave 5.8 GHz and receives its echo. The sensor detects the change in echo from movement in its detection zone. A microprocessor then triggers the switch light ON command. Detection is possible through doors, panels of glasses thin walls.

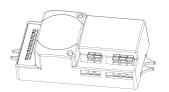
Note: the high-frequency output of this sensor is < 0.2mW; approximately just 0.2‰ of the transmission power of a mobile telephone or the output of a microwave oven.

#### **IMPORTANT**

PLEASE READ THESE INSTRUCTIONS CAREFULLY PRIOR TO INSTALLATION AND RETAIN THIS LEAFLET IN A KNOWN AND SAFE PLACE FOR FUTURE REFERENCE.

#### **SECTION 1 INSTALLATION & WIRING**

1.1 ENSURE THAT THE ELECTRICITY SUPPLY IS SWITCHED OFF COMPLETELY BEFORE INSTALLING OR SERVICING THIS PRODUCT.

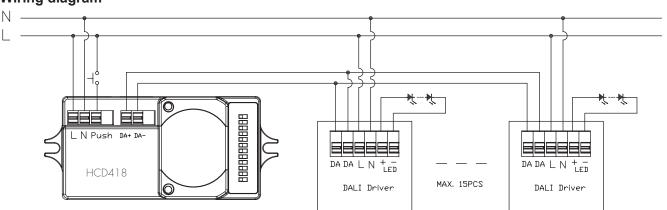


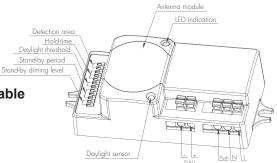
The sensor has a 5-wire electrical interface:

N (neutral / 120-277VAC) DA+ (DALI "+" interface)
L (phase / 120-277VAC) DA - (DALI "-" interface)

PUSH (Push interface)

#### 1.2 Wiring diagram





#### **SECTION 2 SETTINGS**

#### **Detection range**

This determines the effective range of the motion detector and is set by DIP switches at the sensor itself, refer to figure. Note that reducing the sensitivity will also narrow the detection range.

The following settings are available:

I - Detection range 100%

II – Detection range 75%

III - Detection range 50%

IV - Detection range 10%

	1	2		
Ι			100 %	÷
$\coprod$		0	75%	H
III	0		50%	<b>\</b>
IV	0	0	10%	

#### **Hold time**

This determines the time the fitting remains at 100% level on motion detection and is set with DIP switches at the sensor itself, refer to figure. The walk test setting is useful when installing the fitting to establish correct operation and range.

The following settings are available:

I – Test

II - 30s

III - 1min

IV – 5min

V-10min

VI – 20min VII – 30min

	1	2	3		
Ι				Test	
II	•	•	0	30s	7
III		0	•	1 min	M
IV	•	0	0	5min	
V	0			10min	₩
VI	0		0	20min	0
VII	0			30min	

#### **Daylight sensor**

This setting holds off the 100% light output should there sufficient daylight and is set using DIP switches at the sensor, refer to figure. The following settings are available:

The following settings are available:

I - Disable

II - 50 lux

III – 10 lux

IV - 2 lux

	1	2		_
Ι	•		Disable	÷
II		0	50Lux	W
III	0		10Lux	🕇
IV	0	0	2 Lux	

<sup>\*</sup>In disable mode the lamp(s) will always be on with motion detected and operate at 100% light output, even in bright daylight.

#### Stand-by period

This is the time period you would like to keep at the low light output level before it is completely switched off in the long absence of people.

I - 0s

II - 10s

III - 1min

IV - 5min

V-10min

VI – 30min

VII – 1h

VIII - +∞

I II IV V VI	1	2	3	0s 10s 1min 5min 10min 30min	
VI VII	0	0	<u> </u>	30min 1h	0
VIII	0	0	0	+∞	

Note: "0s" means on/off control; " $+\infty$ " means 2-step of dimming control, fixture never switch off.

#### Stand-by dimming level

This is the dimmed low light output level you would like to have after the hold-time in the absence of people.

I – 5%

II – 10%

III – 20%

IV - 50%

	1	2		_
Ι		•	5%	÷
II		0	10%	H
III	0	•	20%	ð
IV			50%	

#### **SECTION 3 FUNCTIONS**

#### 3.1 Manual override

This sensor reserved the access of manual override function for end-users to switch on/off, or adjust the stand-by dimming level with the push-switch, which makes the product more user-friendly and more options to fit for some extra-ordinary demands.

- \* Short push (<1s): On/off;
- $ON \rightarrow OFF$ : The light turns off immediately and can not be lighten for a certain time (equals to hold time preset) even movement is detected. After this period, the sensor goes to auto sensor mode.
- OFF  $\rightarrow$  ON: The light turns on 100% and goes to sensor mode, even when ambient LUX level exceeds the daylight threshold.
- \* Long push (>1s): Dim up/down the stand-by dimming level between 10% and 50%. Both the settings on DIP switch and manual override can overwrite each other, the latest action stays in validity.
- \*If customers do not want to have this manual override function, we can just leave this "push" terminal alone, not connected to any wire.

Note: Motion sensor overrides daylight sensor, meaning the daylight sensor starts to check the ambient natural light only when the lamp is switched off (motion hold-time elapsed).

#### **SECTION 4 TROUBLE SHOOTING**

MALFUNCTION CAUSE REMEDY	CAUSE	REMEDY	
	Do not connect to DALI power supply	Connect to DALI power supply	
	Incorrect light-control setting selected	Adjust setting	
The load does not work	Load faulty	Replace load	
	Mains switch OFF	Switch ON	
The load is always on	load is always on Continuous movement in the detection zone		
	The sensor is not mounted for reliably detecting movement	Securely mount enclosure	
The load is on without any identifiable movement	Movement occurred, but not identified by the sensor (movement behind wall, movement of small object in immediate lamp vicinity etc.)	Check zone setting	
The load does not work despite movement	Rapid movements are being suppressed to minimize malfunctioning or the detection radius is too small	Check zone setting	