

DCS Presence and Light Sensor DALI



DCS – Presence and Light Sensor DALI

INTRODUCTION

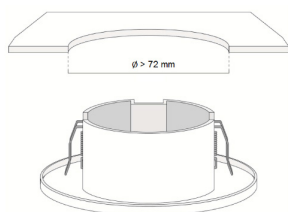
The DCS is an addressable DALI-compatible sensor that detects presence and measures light intensity.

FUNCTION

- Addressable
- Registers presence in a DALI system.
- Measures Light Intensity: In a DALI system.
- Adjustable Sensor: Can be manually reoriented.

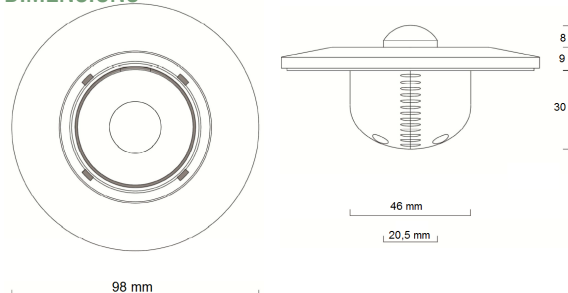
INSTALLATION

The DCS is designed for mounting in suspended ceilings.

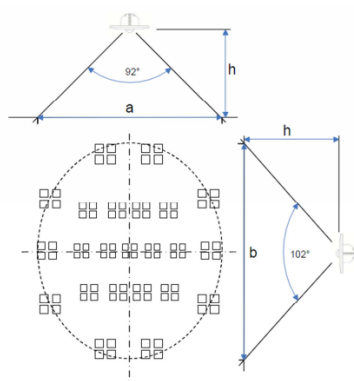


DCS Installation: Make a 73 mm circular hole for the sensor mount.

DIMENSIONS



DETECTION AREA



h (m)	a (m)	b (m)	A (m ²)
2,5	5,2	6,2	25,1
2,7	5,6	6,7	29,3
3,0	6,2	7,4	36,2
3,5	7,2	8,6	49,2
4,0	8,3	9,9	64,3
5,0	10,4	12,3	100,4
6,0	12,4	14,8	144,6
8,0	16,6	19,8	257,1
10,0	20,7	24,7	401,7

TECHNICAL SPECIFICATIONS

General

Power Supply: Via DALI bus line
Nominal Current Consumption: 3.5 mA
Input/Output: DALI
Measurement Range: 0 - 2500 lux
Resolution: 1 lux
Presence Detection: Passive IR (see below)
Ambient Temperature: 0 - 70 °C
Ingress Protection: IP20
Cable Size: 0.5 - 1.5 mm²
Color: RAL 9010

Power Supply

Powered via connected DALI loop.

PLACEMENT OF LIGHT SENSOR ONLY

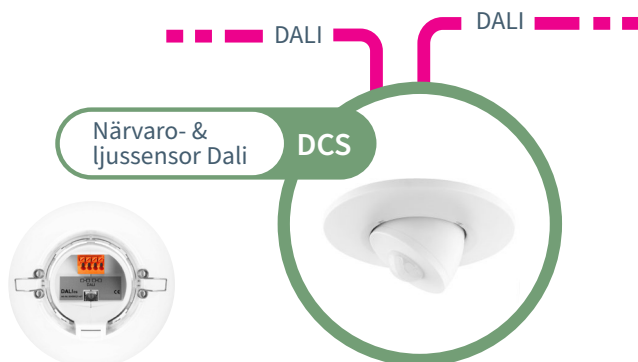
Here are some guidelines for placing a light sensor:

- Avoid Temporary Reflections: Light sensors should be placed so that temporary reflections or other artificial light do not affect the sensor unless the light simultaneously impacts the target surface equally.
- Avoid Extremes: The sensor should never be placed in the brightest or darkest spot.
- Stable Daylight: A location where daylight varies significantly can lead to undesired rapid or frequent light regulation.
- Office Placement: A suitable placement in office rooms with windows is often 2/3 into the room in a spot that is not above desks.
- Reorientation: Light sensors may need to be reoriented, moved, or recalibrated if light conditions change after final furnishing. Factors such as altered daylight input, color schemes, or material choices can affect the light relationship between the target area and the reference point at the sensor.

PLACEMENT OF LIGHT AND PRESENCE SENSOR

Before finalizing the placement of the DCS, which is a combined light and presence sensor, consider the light conditions and any existing or planned physical obstacles that might affect presence detection from the chosen position.

CONNECTION



DCS: Connection terminal for DALI.

ADDITIONAL PRODUCT DOCUMENTATION

The documents can be accessed at www.lindinvent.com

Document	Comment
Installation Instructions	See dimensions and installation details in this product description.
Commissioning Instructions	Refer to the commissioning instructions for the SBD control unit.
Maintenance Instructions	Considered maintenance-free.
External Connection Diagram	See the terminal connection illustration in this product description.
Environmental Product Declaration	For assessment by the Byggsvarubedömningen in Sweden.
AMA-text	Refer to the SBD lighting control unit.

Table 1: Additional Documentation for DCS. Refer to SBD Lighting Control for further documentation.