

HCD038/D2

Control unit | DALI-2 Command | Attachable sensor heads

HYTRONIK[®]
SENSORS & LIGHTING CONTROL



Benefits

Adaptable: Small control unit with strain relief

Versatile: HF sensors option via plug&play

Intuitive: DALI-2 multi-sensor input device

Applications

Master luminaire with sensor

Classrooms

Offices

Check Out the Complete System Solution on the Website:
<https://www.hytronik.com/product/HCD038-D2>



Product Description

The HCD038/D2 is an advanced DALI-2 control unit that has been specially developed as a multi-sensor input device. It seamlessly integrates with the SAM24 microwave sensor head and enables comprehensive control and monitoring functions in DALI-2 lighting systems.

Functions and Features

See additional details at the end of datasheet



DALI-2 Certified

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Specifications

Main Capabilities

Dimming (Output) Interface	DALI/DALI-2
Connector Type	Standard 2 cables

Electrical Data

Operating voltage range	9.5-22.5 VDC
Input Voltage	220-240 VAC 50/60 Hz
Power Consumption	<1W
Current Consumption	Max. 2mA from DALI Bus

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Specifications

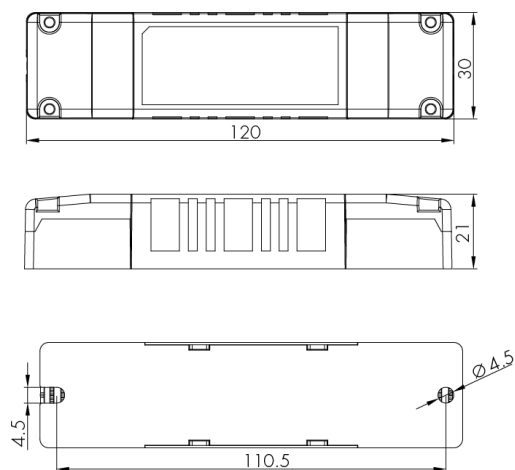
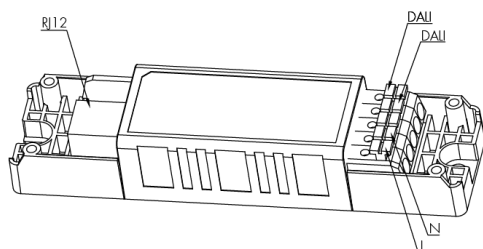
Technical	
Product weight	46.0 g
Product height	21.0 mm
Product length	120.0 mm
Product width	30.0 mm
Ambient temperature	-20 ~ +60 °C
Storage temperature	-35 ~ +70 °C
Humidity max	20 ~ 90%
Case Temp.max	70.0 °C
IP Rate	IP20

Standard	
EMC	EN 55015, EN 61000-3-2, EN61000-3-3, EN 61547
LVD	EN 61347-1, EN 61347-2-11
RED	EN 300440, EN301489-1, EN301489-3, EN 50663
Compliance	IEC62386_101, 103, 303, 304

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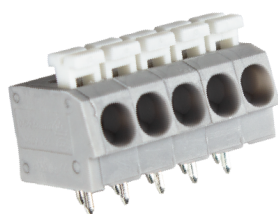
Technical Drawing



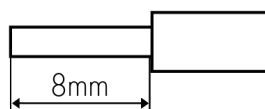
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Wire Preparation

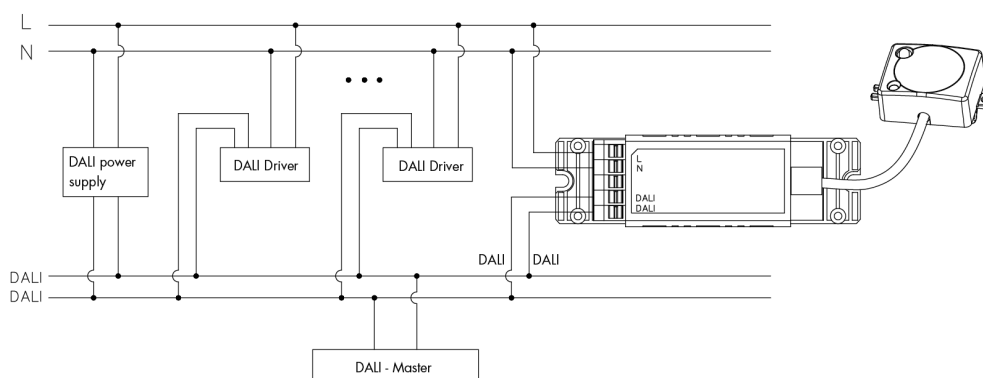


0.75~1.5mm²



To make or release the wire from the terminal, use a screwdriver to push down the button. 1. 200 metres (total) max. for 1mm² CSA (Ta = 50°C) 2. 300 metres (total) max. for 1.5mm² CSA (Ta = 50°C)

Wiring Diagram



Commissioning Instructions and Precautions

A. Installation Notes

1. This product should be installed by a qualified electrician.
2. To ensure better detection, keep the sensor lens part beyond the surface of the light fixture.
3. We recommend the mounting distance between sensor to sensor should be more than 2m to prevent sensors from false-triggering.

B. Sensor head Precautions

1. The control base can be used only after it is connected to the sensor head via RJ12 connection.

C. DALI-2 Compliance

1. 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 2.4.0.0), covering the applicable IEC 62386 parts (e.g. Part 101, Part 103, Part 303, Part 304). 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.

D. DALI-2 Sensor Detection Sensitivity Adjustment

Please refer to: https://hytronik.com/media/1b/a1/05/1767775483/DALI_Sensor_Sensitivity_Adjustment.pdf?ts=1767775483

E. DALI-2 Instances & Functional Behavior

Please refer to: https://hytronik.com/media/a1/7b/cd/1767775493/DALI_2_Instances_and_Functional_Behavior.pdf?ts=1767775493

Warning: For additional important documents, including installation precautions, product guidelines, and guarantee conditions, please refer to the official downloads.

<https://hytronik.com/service/downloads>

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Options

Compatible products (for full functionality)



SAM24

HF Lowbay | Daylight harvest | RJ12 connector to control body

www.hytronik.com/product/SAM24

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DALI-2 Certified

The product is DALI-2 certified, ensuring compatibility with DALI-2 control devices and compliance with relevant international lighting control standards. Certified product details can be verified via the DALI Alliance product database.

Check out for further explanation of features

<https://hytronik.com/solutions/lighting-control-features>