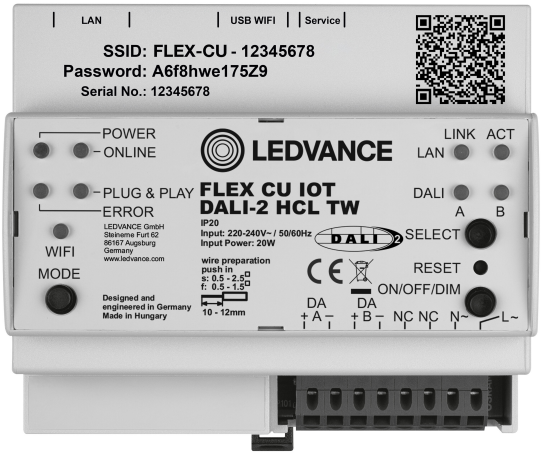
PRODUCT DATASHEET
FLEX CONTROL UNIT IOT DALI-2 HCL TW

FLEX CONTROL UNIT IOT DALI-2 HCL TW | Control unit for up-to 128 lights and up-to 126 sensors/pushbutton couplers



Areas of application

- Area lighting of up-to 1000 sqm with one control unit
- Room and floor control
- Connection of light and presence sensors for automated light control
- RGB and Tunable white applications

Product benefits

- DALI-2 certified for improved multi-vendor interoperability
- BIOLUX Human Centric Lighting for high quality daylight course in office spaces
- Remote access for changes in the installation from every location
- LAN Interconnect to connect up-to 8 Controller into one network
- Rest API for connection of a 3rd party Cloud with the FLEX CU IOT DALI-2 HCL TW Controller
- Ready for optional VIVARES Cloud Services

Product features

- DALI-2 certified control unit for up-to 128 lights and 126 sensors-pushbutton couplers
- IoT ready with built-in gateway for remote data access
- Compatible with LEDVANCE DALI IoT WEB UI and DALI IoT CONFIG software
- Building Management System integration via optional KNX interface
- Commissioning process via Ethernet/WLAN
- Small form factor: only 6 TE (DIN rail)
- Cable length of the DALI control cable: up to 300 m

© 2026, LEDVANCE GmbH. All rights reserved.

TECHNICAL DATA

Electrical data

Nominal wattage	20.00 W [1)]
Nominal voltage	220…240 V [2)]
Type of current	DC
Input current	120 mA
DALI bus supply	200 mA
Mains frequency	50…60 Hz
Operating frequency	50/60 Hz

1) max. DALI load

2) AC mains operation

Dimensions & Weight



Length	91.00 mm
Width	106.00 mm
Height	62.00 mm
Cable cross-section, input side	0.5…2.5 mm^2
Wire preparation length, input side	10…12 mm
Product weight	247.00 g

Colors & materials

Product color	Light grey

Temperatures & operating conditions

Ambient temperature range	-20…+50 °C
Maximum temperature at tc test point	70 °C
Temperature range in operation	-20…+50 °C

Lifespan

Number of switching cycles	30000

Additional product data

Number of control outputs	2
Max. connectable push button couplers / sensors	126

© 2026, LEDVANCE GmbH. All rights reserved.

Max. number of connected drivers	128
Commissioning App	Software
Light control tool App	App (Android/ iOS)
Groups	32

Capabilities

Dimmable	No
Dimming interface	DALI-2
Type of installation	Rail mounting

Certificates & Standards

Approval marks – approval	CE / UKCA
Standards	Acc. to EN 55022 / Acc. to IEC/EN 61000
Protection class	II
Type of protection	IP20

EQUIPMENT / ACCESSORIES

– App for iOS and Android available for free in the app store

Safety advice

– All electrical connections must be made by a qualified person.
– Disconnect mains before installation.

DOWNLOAD DATA

	Documents and certificates	Document name
PDF	User instruction / safety instructions	FLEX CU IOT DALI2 HCL TW
PDF	Extended installation guide	FLEX CU IoT DALI-2 Controller
PDF	Extended installation guide	FLEX CU IoT DALI-2 HCL TW
PDF	On-Pack-Info	Privacy Information for LEDVANCE DALI IOT CONFIG tool_Dec2024
PDF	On-Pack-Info	Privacy Information for LEDVANCE DALI IOT CONTROL APP_Dec2024
PDF	On-Pack-Info	Privacy Information for LEDVANCE DALI IOT WEB UI_Dec2024
PDF	On-Pack-Info	Privacy Policy for LEDVANCE DALI IOT Remote Access_Dec2024
PDF	On-Pack-Info	Quick Start Guide DALI-2 IoT Remote Access Service

© 2026, LEDVANCE GmbH. All rights reserved.

	Documents and certificates	Document name
PDF	On-Pack-Info	Quick Start Guide DALI IoT WebUI Commissioning software
PDF	On-Pack-Info	FAQ VIVARES FLEX CU IOT DALI-2 HCL TW
PDF	Legal information	Informationstext 18 Abs 4 ElektroG
PDF	Declarations of conformity	FLEX CU IOT DALI-2 HCL TW
PDF	Release notes	LEDVANCE DALI IoT Config tool 3 1 18 23405 EN
PDF	Release notes	LEDVANCE DALI IoT Config tool 3 1 18 23405 DE
PDF	Open source components	LEDVANCE DALI IOT Config Tool

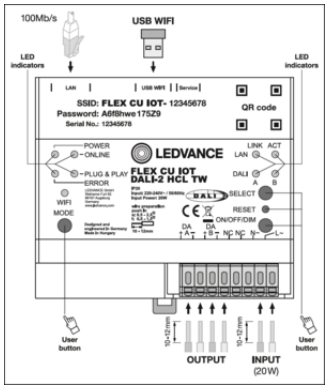
	Tender texts	Document name
TXT	Tender documents	DALI 2 CONTROL UNITS IOT DALI 2 HCL TW-EN

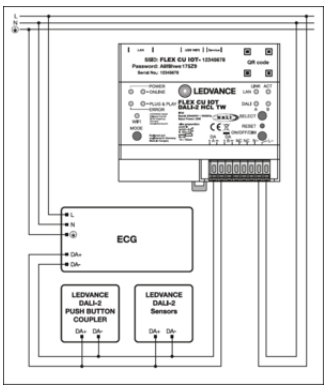
LOGISTICAL DATA

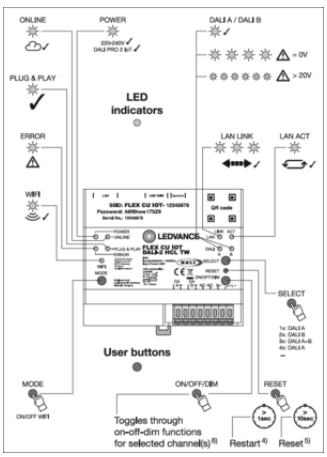
Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075841888	Folding box 1	112 mm x 94 mm x 72 mm	284.00 g	0.76 dm^3
4058075841895	Shipping box 20	235 mm x 199 mm x 372 mm	5905.00 g	17.40 dm^3

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

ADDITIONAL CATALOG INFORMATION







© 2026, LEDVANCE GmbH. All rights reserved.

References / Links

– For current information see www.ledvance.com/light-management-systems

DISCLAIMER

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.

© 2026, LEDVANCE GmbH. All rights reserved.