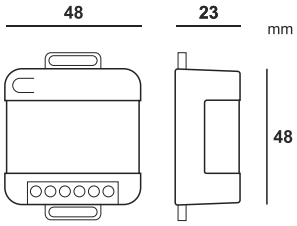
USER GUIDE
DALI-2-RELE

Electronic relay with DALI signal control

www.leflighting.it

General characteristics

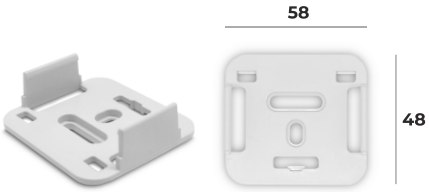
Plastic case of reduced size
Device not for indipendent mounting
Electric class protection II
Protection degree IP20



To view the complete instructions on the website www.leflighting.it scan the following QR codes:

DALI-2-RELE

ATTENTION:
The installation of the product must be followed by qualified personnel.
If the product is used for purposes other than the original ones or if it is connected incorrectly, LEF Lighting S.R.L. will not accept any responsibility for damages caused.



DIN Rail adapter available
(code STAFFADIN03)

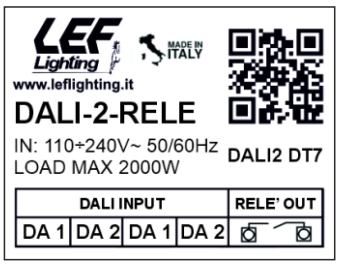
Reference Standards

EN 62386-101
EN 62386-102
EN 62386-208

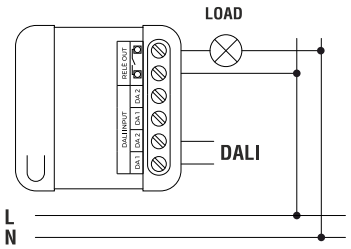
	OUT RELÈ	DALI 2	DALI DT7

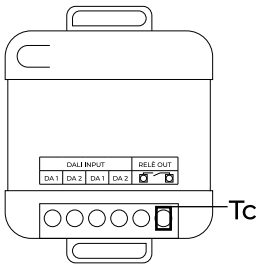
CODICE **CODE**	Funzione Function	Comando Control	**RESISTIVO** RESISTIVE **Lampade ad incandescenza o alogene** Incandescent or halogen lamps 230Vac	**INDUTTIVO** INDUCTIVE **Trasformare lamellare** Laminated transformer 230/12Vac	**INDUTTIVO** INDUCTIVE **Trasformare toroidale** Toroidal transformer 230/12Vac	**Alimentatore elettronico con lampade ad incandescenza o alogene** Electronic driver with incandescent or halogen lamps 230/12Vac	**Lampade fluorescenti compatte** Compact fluorescent lamps 230Vac	**Lampade LED** LED lamps **E14 E27 GU10** 230Vac	**Moduli LED** LED modules **Seoul ACRICH** 230Vac	**Strip LED** LED Strips 230Vac	**Peso** Weight (g)
DALI-2-RELE	RELÈ	DALI	2000W	1000W	1000W	1000W	1000W	1000W	2000W	2000W	35

In case of using the product with 110Vac voltage the power in the table should be reduced by 50%



DALI signal control





Technical features

Input voltage range 110-240Vac
Input frequency 50÷60Hz
Relay (max 2000W@230Vac)
Control through:
- DALI signal
DALI consumption 6mA
Device powered by the DALI BUS, requires no additional power supply
Manageable power (see table)
«ZERO CROSSING» function
Short circuit Protection (SCP)
Operating ambient temperature Ta -20°C ÷ +50°C
Max case temperature on Tc 65°C

The DALI-2-RELE dimmer is a compact actuator specifically designed for integrating non-dimmable loads within DALI-2 systems.
This device is powered directly from the DALI bus, eliminating the need for an external power supply.
Featuring a bistable relay with a load capacity of up to 8A and an operating voltage range of 85 to 250 Vac, the device performs relay switching at **zero-cross**, reducing stress on the contacts and extending their service life.Compliance with the DALI-2 DT7 standard ensures compatibility with the most modern lighting control systems.

PRODUCT TO BE DISPOSED DIFFERENTLY FROM URBAN WASTE
AEE identification nr.IT18040000010321

IP20 | ta MAX 50°C | 2000 WATT | AC 230V

22 PAP MADE IN ITALY

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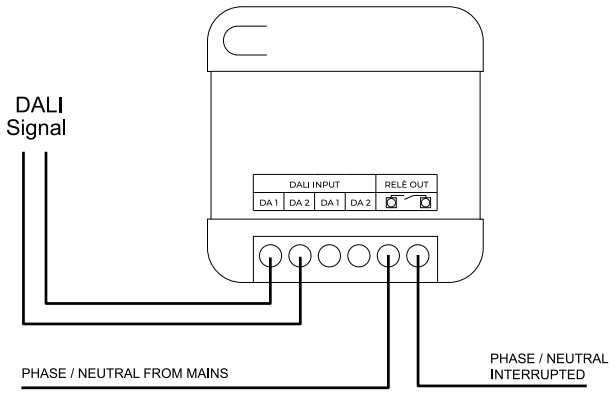
The DALI-2-RELE operates as a DALI-controlled relay.
This allows ON/OFF devices to be integrated into a DALI system and to be switched on and off via DALI DT7 commands.
The DALI-2-RELE is powered directly from the DALI line.
The typical current consumption is 2.5 mA.
To supply power to the devices on a DALI line, the installation of a DALI power supply (DALI POWER SUPPLY) is required.
Switching occurs at the zero-crossing of the AC voltage.



Standard DT7 devices have a binary output with only two states (on and off).
In order to allow fine control of switch-on and switch-off delays, the standard nevertheless implements the management of the so-called "**Virtual Arc Power Level**".
This value simulates an internal dimming behavior, even though the actual device output is purely binary (on/off).
The **VAPL** follows the standard DALI rules (and is therefore subject to the MAX, MIN, Fade Rate, and Fade Time settings) and is controlled using standard DALI-2 commands (e.g. GO TO SCENE, DAPC, etc.).

The "**VAPL**" is continuously compared with four programmable thresholds:
UP SWITCH-ON THRESHOLD
UP SWITCH-OFF THRESHOLD
DOWN SWITCH-ON THRESHOLD
DOWN SWITCH-OFF THRESHOLD
Depending on the direction of change of the "**VAPL**" (increasing or decreasing), the device compares the current value with the relevant thresholds and switches the output according to the table below.

VAPS direction	Comparison	Action
UP	VAPL ≥ UP SWITCH-ON THRESHOLD	Turning on
UP	VAPL ≥ UP SWITCH-OFF THRESHOLD	Turning off
DOWN	VAPL ≤ DOWN SWITCH-ON THRESHOLD	Turning on
DOWN	VAPL ≤ DOWN SWITCH-OFF THRESHOLD	Turning off

The thresholds can be configured independently,including with crossed values (e.g. DOWN ON > DOWN OFF),in order to define custom hysteresis behaviors.
If the two thresholds of the same "pair" (e.g. UP ON and UP OFF) have the same value, switching prioritizes turning on.If a threshold is set to MASK (255), it is excluded from the VAPL comparison (e.g. if UP SWITCH-OFF THRESHOLD = MASK, the device cannot turn offwhile the VAPL is increasing).
Unlike some systems with rigid hysteresis, the standard does not requireUP ON < UP OFF, or similar constraints. This allows even complex implementations, as long as they are logical.

Factory default

The device is shipped from the factory with the following default values.

The default configuration can be restored using the RESET command:
- UP SWITCH-ON = 1
- UP SWITCH-OFF = MASK (255)
- DOWN SWITCH-ON = MASK (255)
- DOWN SWITCH-OFF = 0

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AEE identification nr.IT18040000010321

IP20 | ta MAX 50°C | 2000 WATT | AC 230V | 22 PAP | MADE IN ITALY

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