

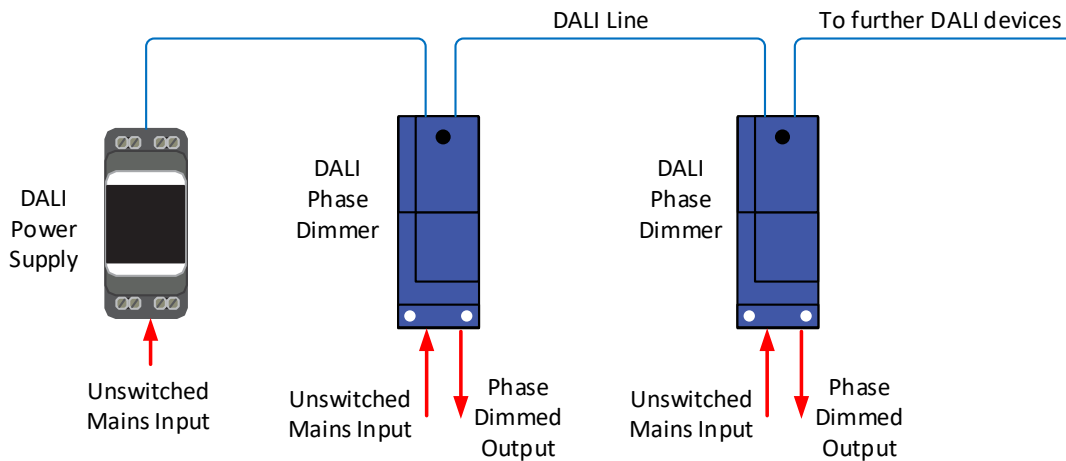


Order Code	DKOZ-DM-400W-01
Overview	<p>This DALI Adaptive Phase Dimmer is suitable for dimming of mains phase dimmable loads. DALI commands are mapped to phase angle dimming.</p> <p>A large area is included for terminating 1.5 mm² or 2.5 mm² double insulated cables used for ac mains supply, switched load output, and DALI line.</p> <p>The device is fully tested to and complies with DALI standard IEC 62386.</p> <p>The device is not suitable for use with Ceiling Sweep Fans, Exhaust Fans or any motor loads.</p>
Features	<p>Phase dimming of lighting loads via received DALI commands.</p> <p>Dimming for lighting loads nominal 400 W, including most LED lighting loads. Refer to specifications for detailed load rating.</p> <p>Line powered – draws under 2 mA from a DALI line.</p> <p>Two wire dimming device – no Neutral required, only 220 - 240 V ac Line (Active) and Load wiring.</p> <p>Suitable for mounting in a ceiling void or on DIN rail using the included DIN rail mounting bracket.</p> <p>The phase dimmed output has a DALI Short Address, and can be including in up to 16 DALI Group Addresses and/or up to 16 DALI Scenes.</p> <p>DALI Short Address, Group Addresses and DALI Scenes are configured using the RAPIX Addressing or RAPIX Integrator software. Can also be commissioned using other DALI commissioning software that supports DALI Device Type 4.</p> <p>Complies with DALI standard IEC 62386 and Device Type 4.</p>
Typical Applications	Commercial Buildings, Hotels, Health Care facilities, Education facilities, Museums, Art Galleries, Homes.

Connecting to a DALI Line

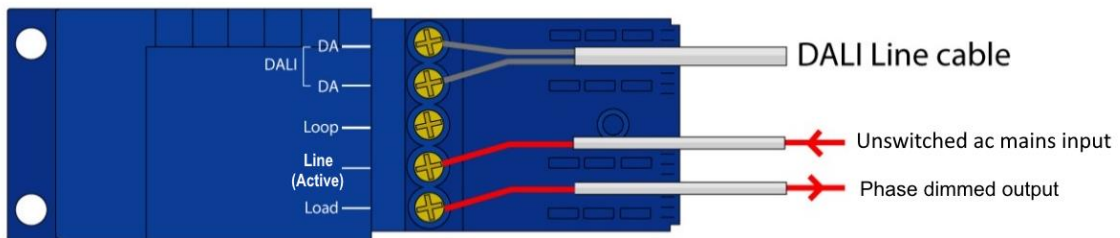
The DALI Adaptive Phase Dimmer must be connected to both ac mains power and a DALI Line powered by a DALI Power Supply.

The DALI Power Supply must meet DALI standards. The RAPIX DALI Power Supply, (available separately) is suitable and recommended.



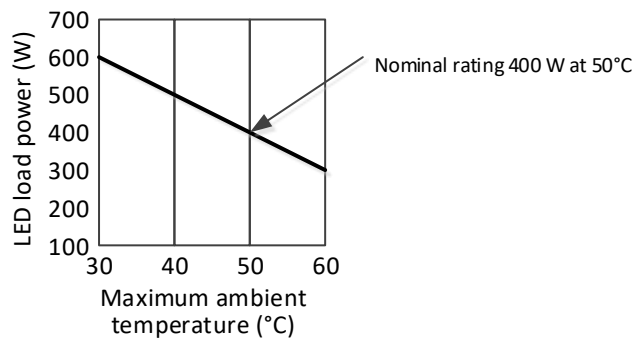
Wiring

- The dimmed load output is internally connected via the dimming circuitry to the mains input connection (line / active).
- The Loop terminal is not connected internally. It can be used to loop unused conductors, such as Neutral.









De-rating

This product is rated for operation up to a 50°C ambient temperature. Use the following load power de-rating graph for LED loads:



Compatible Load Types (rated capacity at 50°C maximum ambient temperature)

Load Symbol	Load Type	Maximum Load	Notes
	Dimmable LED Lamps / Drivers	400 W	The LED driver must be dimmable. Maximum permitted number of drivers is 400 W divided by driver nameplate power rating. Due to variety of LED lamp designs, maximum number of LED lamps is further dependent on power-factor result when connected to dimmer.
	Electronic Transformers	400 W	
	Standard Iron-Core Transformers	250 W	Due to variety of transformer designs, maximum LV Lighting load is further dependent on transformer efficiency.
	Toroidal Iron-Core Transformers	300 W	
	Incandescent	350 W	
	Dimmable CFLs	400 W	Due to variety of CFL designs, maximum number of CFL lamps is dependent on particular CFL make/model.

Incompatible Load Types

- Ceiling Sweep Fans
- Exhaust fans
- Any other motor loads

Specifications

Parameter	Specification
Number of Outputs	1
Mains Supply Input Voltage	220 – 240 V ac (nominal)
Mains Frequency Range	47 – 53 Hz
Electrical Isolation	4 kV (DALI to Mains)
Load Brightness Control Range	0% to 100% (Typical for LED loads)
Minimum Load	1 W
Load Rating	See separate table: Compatible Load Types
Mains Standby Power	< 100 mW
Mains Terminals	2 x 2.5 mm ² maximum per terminal or 3 x 1.5 mm ² maximum per terminal
DALI Terminals	2 x 2.5 mm ² maximum per terminal or 3 x 1.5 mm ² maximum per terminal
Weight	100 g
Operating Temp. Range	0 - 50° C (for full performance - refer de-rating section)
Operating Humidity Range	0% to 95% RH non condensing
Mounting Arrangement	Surface mount: 6mm mounting holes DIN rail mounting: using included DIN rail mounting bracket
Housing Material Type	Flame retardant polycarbonate, UL 94V-0
IP Rating	IP20
DALI Line Current Draw	2 mA
DALI Device Type	Type 4
Max. Number of Units on a single DALI Line	64

Standards & Compliance

EMC and Electrical Safety Frameworks and Standards

Regulation	Standard	Title
EMC	EN 55015:2013	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
	IEC 60669-2-1 EN 60669-2-1 AS/NZS 60669.2.1	Switches for household and similar fixed electrical installations – part 2-2: Particular requirements – Electronic switches (EMC clauses)
	IEC 61000-3-2, -3 EN 61000-3-2, -3 AS/NZS 61000-3-2, -3	Limits for harmonic current emissions Limitation of voltage changes, voltage fluctuations and flicker
	IEC 61000-4-2, -3, -4, -5, -6, -8, -11 EN61547:2009	ESD, Radiated immunity, EFT/Burst, Surge, Conducted Immunity, Magnetic Immunity, Voltage dips and Short Interruptions
	AS/NZS CISPR 15:2011	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
Electrical Safety	IEC 60669-1 EN 60669-1 AS/NZS 60669.2.1	Switches for household and similar fixed electrical installations – Part 1: General requirements
	IEC 60669-2-1 EN 60669-2-1 AS/NZS 60669.2.1	Switches for household and similar fixed electrical installations – Part 2-1: Particular requirements – Electronic switches

EC Council Directives

EC Council Directive	Title
2006/95/EC	Low Voltage
2004/108/EC	Electromagnetic Compatibility (EMC)
2011/65/EU	Restriction of Hazardous Substances (RoHS) in Electrical and Electronic Equipment

Other International Directives and Standards

Regulation	Standard	Title
Digital Addressable Lighting Interface (DALI)	IEC 62386-101	Digital Addressable Lighting Interface – Part 101: General Requirements – System
	IEC 62386-102	Digital Addressable Lighting Interface – Part 102: General Requirements – Control Gear
	IEC62386-205	Digital Addressable Lighting Interface – Part 205: Particular Requirements for Control Gear – Supply voltage controller for incandescent lamps (device type 4)



IP20

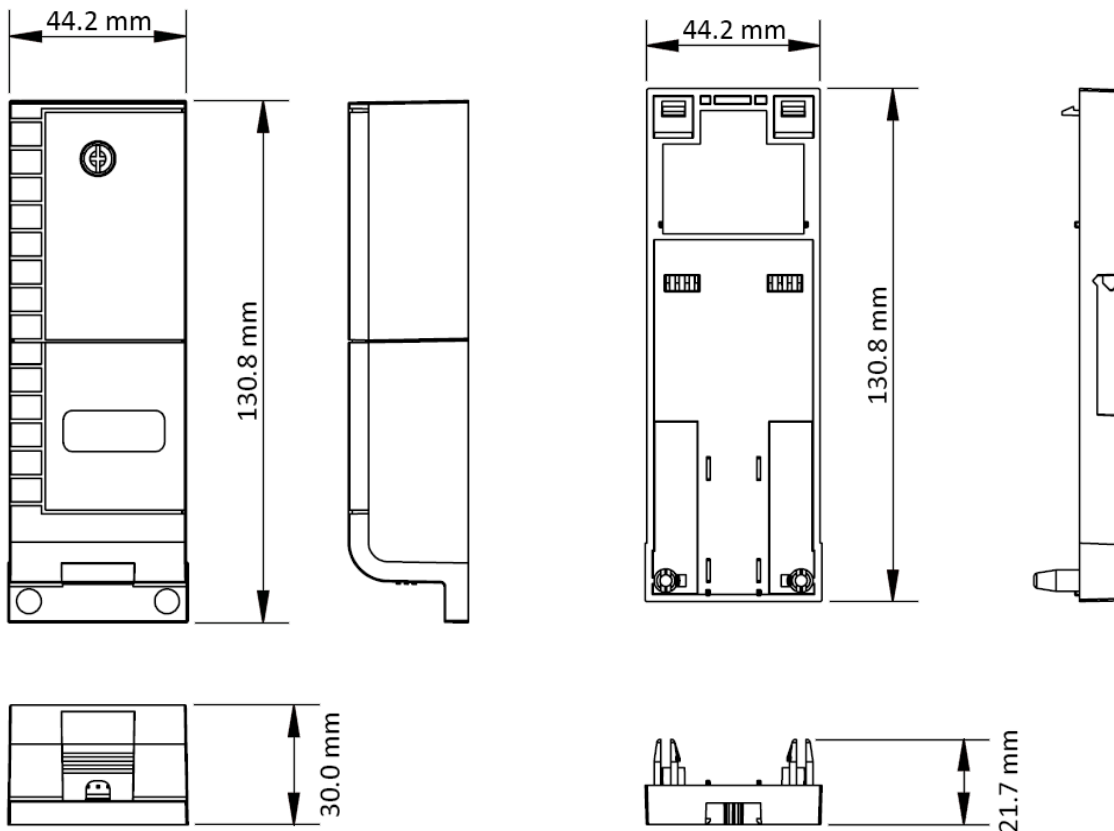
CE



ROHS
COMPLIANT



Dimensions



DALI Adaptive Phase Dimmer

DIN Mounting Bracket (included)

Contact Information

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This product includes a **TWO-YEAR WARRANTY** against manufacturing defects.

RAPIX is a trademark of Ozuno Holdings Limited and Gerard Lighting Pty Ltd.

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