

DGOZ-IC-2 / DGOZ-IC-4

RAPIX DALI-2 40-series Switch Input

With 2 or 4 Inputs, Low Current, LED indicator support and Application Controller.

Suitable for direct connection to a DALI line for switching, dimming, timing, group and scene control and similar functions.

Product summary and capabilities

The DGOZ-IC-2 and DGOZ-IC-4 DALI-2 4-series Switch Input connect to either up to 2 or up to 4 Clipsal Iconic 5041NMS Modules, allowing them to be used as inputs to a DALI-2 lighting control system. This Switch Input is powered directly from the DALI line.

The RAPIX DALI-2 40-series Switch Input works with DALI-2 Application Controllers and exposes either 2 or 4 instances. It can also act as a RAPIX DALI Application Controller and can perform sensing, switching, dimming, timing, group control, scene control and similar functions.

Commissioning uses any DALI-2 commissioning software that supports DALI-2 Instance Types 1 and feature type 32 (Feedback). For the higher resilience of RAPIX and to set up the built-in Application Controller, use *RAPIX Addressing* or *RAPIX Integrator* software. These software packages are available at no charge from ozuno.com

Important notes and safety information

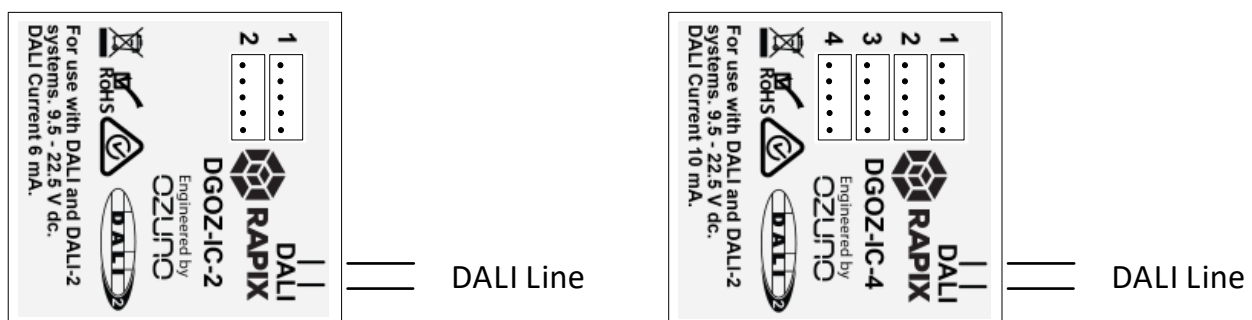


WARNING – Electric shock may result in serious injury or death. Follow all warnings in this guide and on the product. Work in accordance with the latest electrical safety practices.

- This 40-series Switch Input product is powered only from DALI.
- DALI system wiring is only single insulated from mains. Treat DALI wiring the same as mains wiring.
- Each input connection has no isolation from DALI. Treat these inputs the same as mains wiring.
- **The input connections do not provide any power source. Connect these only to a Clipsal 5041NMS.**
- **Do not connect any part of the switch input connections to any other power source, or to earth, or to mains line or neutral.**
- There are **no user serviceable parts** inside the Iconic Switch Input. Do not attempt to disassemble or operate the product with any covers removed.
- This product is intended for **indoor use only**.

Terminals & Connections

The 40-series Switch Input has a single DALI connection and 2 or 4 sockets. Each socket connects to a Clipsal 5041NMS. The DALI connection is wired to a DALI line and is independent of polarity.



IMPORTANT: When connecting a 5041NMS to this product, check the connector plug carefully. The connectors can be damaged if the plug is inserted the wrong way. The red stripe must be facing away from the outside edge of the switch input enclosure:



Specifications

Property	Specification
Power source	DALI line
Compatibility	DALI and DALI-2
DALI Line Capacity	Connects to 1 DALI line
DALI operating voltage	16 V dc (nominal), operation from 9.5 V – 22.5 V
DALI Line current draw	10 mA (DGOZ-IC-4: Up to 4 x 5041NMS connected) 6 mA (DGOZ-IC-2: Up to 2 x 5041NMS connected)
Start-up time	< 1.2 seconds
Mains tolerance	DALI input is mains voltage tolerant
Connection type	Flying leads terminated by ferrule / crimp
Wire length supplied	120 mm (nominal)
Allowable input types	DALI-2 Type 1 (Push button switch).
Indicators	Can drive both the red and blue indicators of the 5041NMS*
Ambient operating temperature	0 to 50° C
Ambient storage temperature	-10 to 70° C
Humidity	0% to 95% RH non-condensing
Ingress protection	IP30
Materials	Enclosure – Flame retardant Polycarbonate
Weight	20 g
DALI addresses used	One DALI-2 Control Device Short Address, no Control Gear Short Addresses
RAPIX Application Controller DALI addressing types supported	Control Gear Short Addresses, Group Addresses, Scenes, Broadcast
Additional Addressing Types**	RAPIX Zones, RAPIX Flags, RAPIX Operating Properties
Approvals	   
*	All 5041NMS are have independent indicator colour control. On each 5041NMS, only one of the red or blue indicators can be driven at a time: colour mixing is not supported.
**	RAPIX features and additional addressing types work with other RAPIX products.

DALI-2 Instances

This product has either 2 or 4 instances depending on order code. On the 2-instance product, instances 0 and 1 are present. On the 4-instance product, instances 0, 1, 2, 3 are present. All instances are DALI-2 Instance Type 1 Push Button.

If a 5041NMS is not connected to a socket, then that instance is present but has no effect.

DALI-2 Feature 32 Capabilities

This product supports both the red and blue indicators of the 5041NMS. Either indicator may be used and the selection of indicator is performed entirely by DALI-2 commands. The product has the following Feature 32 capabilities:

- feedbackCapability: Bit 6: common brightness control.
- feedbackActiveBrightness and feedbackInactiveBrightness are binary: brightness is either on or off.
- feedbackColourCapability supports R and B (Red and Blue), with 1-bit resolutions. Combinations of Red and Blue are not possible.
- Feedback is only supported for “Feature on Instance Level”.
- Although both Red and Blue LEDs are present, only one or the other may be activated on an instance at any time. Mixing of colours on an instance is not supported. Instances have independent colour settings.

Application Controller Features

This 40-series Switch Input contains an Application Controller. Available functions include Toggle (On/Off), Dimmer, Timer, Occupancy Sensor, Vacancy Sensor, and many more. Control is possible for DALI Short Addresses, Groups, Scenes, Broadcast and combinations of these.

The Application Controller can be set up using the free *RAPIX Addressing* or *RAPIX Integrator* software, available at ozuno.com. A RAPIX USB Interface or Zone Controller is required to connect the commissioning software / PC to the DALI line.

When the Application Controller is used, the LED indicator colours can be selected quickly and easily for linking to a zone state, scene or similar.

RAPIX Zero-Commissioning: Out-of-box Functions

This product supports RAPIX Zero-Commissioning out-of-box functions. All RAPIX Zero-Commissioning behaviour becomes automatically disabled when any commissioning or setup is made of this product.

The RAPIX Zero-Commissioning behaviour of this product is:

- Push / release to transmit Broadcast ON/OFF Push and hold to DIM UP/DOWN & Release to terminate the dimming.
- The Blue indicator will be ON when the DALI broadcast is on, and off otherwise.

Standards and compliance

The product is designed to meet/exceed the following Australian and International standards:

EMC and Electrical Safety Frameworks and Standards

EN 55015:2013+A1:2015

AS/NZS CISPR 15, AS CISPR 15:2017

EN 55032:2015, AS/NZS CISPR 32:2015

EN 61347-2-11:2001 /A1:2019

EN 61347-1:2015

AS/NZS 60950.1

DALI Standards and Compliance

IEC 62386-101 Ed 2 (DALI-2)

IEC 62386-103 (DALI-2 Control Devices)

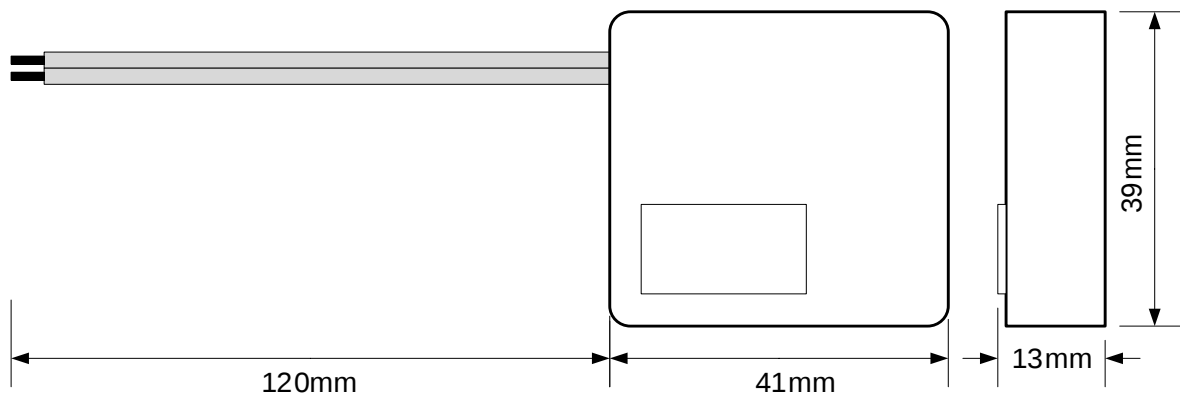
IEC 62386-301, -332 (Push button switches and feedback)

EU Directives

2014/35/EU Low Voltage

2014/30/EU Electromagnetic Compatibility (EMC)

2015/863 Restriction of Hazardous Substances (RoHS) in Electrical and Electronic Equipment

Product dimensions

Warranty

This product has a TWO YEAR warranty against manufacturing defects. The warranty applies from the date of purchase.

Refer to [ozuno.com](https://www.ozuno.com) for the full conditions for warranty and returns process. A summary of the process:

1. Contact the seller of the goods, or in their absence contact Ozuno to request a return goods authorisation.
2. When a return is authorised, the goods must be returned to Ozuno at the owners expense for technical evaluation.
3. The warranty claim will be evaluated by Ozuno and accepted if the goods are found to be faulty, or rejected if the fault was caused by conditions beyond the responsibility of Ozuno. Considerations of installation, removal, return, freight and testing are not the responsibility of Ozuno.

The Australian Consumer Law requires the inclusion of the following statement with this Warranty:

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

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