


2 Instances: DGOZ-IC-2

4 Instances: DGOZ-IC-4

Order Codes	2 Instances: DGOZ-IC-2 4 Instances: DGOZ-IC-4
Overview	A 2 or 4 switch input unit that can utilise the Clipsal 40-series 5041NMS, allowing its use in the RAPIX Lighting Control System or with other DALI-2 compliant Application Controllers. For the added resilience of RAPIX, the switch input unit allows 40-series push buttons to act as RAPIX DALI-2 Application Controllers, performing switching, dimming, timing, group control, scene control and similar functions.
Features	• Connects directly to Clipsal part code 5041NMS. • Powered from the DALI line. Very low current draw. • DALI-2 Certified, multi-master. • Up to 2 or 4 inputs (dependant on order code). • Allows both of the 5041NMS red or blue LEDs to be selected for feedback colour. All colour selection is made by commissioning software or DALI-2 commands. • Programmable over DALI. • Very small, designed to be mounted behind a typical wall plate. Fits in common wall boxes. • Supports DALI-2 standard -332 for feedback control, including red/blue colour control and indicator on/off control. • The internal Application Controller is optional, and if used: ○ Supports small systems, RAPIX Zero-Commissioning, and additional resilience when used in a RAPIX Lighting Control System; ○ Actions available include Toggle on / off, Fade lights up or down, Start or cancel a timer, Recall a fixed level, Toggle between off and the current level, Issue a scene, and many more; ○ Powerful enable/disable rules; ○ Support for multiple Zones - being collections of DALI Groups and/or DALI Short Addresses; and ○ Supports DALI and RAPIX Scenes.
Typical Applications	Commercial & Industrial buildings, Education Facilities, Health care facilities, Hotels, Residential buildings.

DALI System Commissioning

This product is set up using any DALI-2 commissioning software that supports DALI-2 Control Device instance types 1 (push buttons) and feature type 32 (feedback). For the higher resilience of RAPIX and to use the built-in Application Controller, the free *RAPIX Addressing* or *RAPIX Integrator* software should be used.

DALI-2 Instances

The product has either 2 or 4 instances depending on order code:

Instance 0	Type 1 Push Button – DGOZ-IC-2 and DGOZ-IC-4
Instance 1	Type 1 Push Button – DGOZ-IC-2 and DGOZ-IC-4
Instance 2	Type 1 Push Button – DGOZ-IC-4 only
Instance 3	Type 1 Push Button – DGOZ-IC-4 only

All instances applicable to an order code are always present, irrespective of whether a Clipsal 5041NMS is physically connected or not. If an input has nothing connected, then that instance is present but has no effect.

This product range also supports DALI-2 Feature Type 32 (Feedback on Instance Level) for indicator control. Each instance can have the red or blue indicator selected according to configuration settings and DALI-2 commands.

RAPIX Zero-Commissioning: Out-of-box Functions

This product supports RAPIX Zero-Commissioning out-of-box functions:

- Push / release to transmit Broadcast ON/OFF. Push and hold to DIM UP/DOWN & release to terminate the dimming.

Connecting to the DALI Line

Each DGOZ-IC-2 or DGOZ-IC-4 includes a 2-wire cable to allow connection to a DALI line.

Connecting the 5041NMS

A Clipsal 5041NMS has a ribbon cable with connector. This plugs directly into a socket on the RAPIX DALI-2 40-series Switch Input.

DALI-2 Feature 32 Capabilities

This product has the following capabilities:

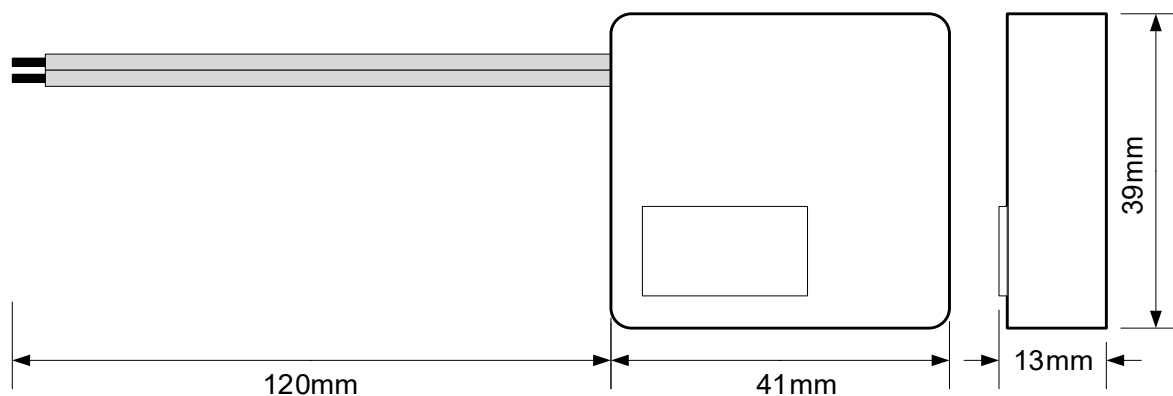
- feedbackCapability: Bit 6: common brightness control.
- feedbackActiveBrightness and feedbackInactiveBrightness are binary: brightness is either on or off.
- feedbackColourCapability supports R and B, with 1-bit resolutions (Red and Blue). Combinations of Red and Blue are not possible.
- Feedback is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

Specifications

Parameter	Specification
Power source	DALI line
Compatibility	DALI and DALI-2
DALI operating voltage	16 V dc (nominal), operation from 9.5V – 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
DALI connection	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
DALI addressing types supported	Short Addresses, Group Addresses, Scenes, Broadcast
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 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.

Dimensions


Standards & Compliance***EMC and Electrical Safety Frameworks and Standards***

AS/NZS CISPR22

EN 61347-1, AS/NZS 61347.1

EN 61347-2-11, AS/NZS 61347.2.11

DALI Standards and Compliance

IEC 62386-101 Ed 2

IEC 62386-103 Ed 2 (DALI-2 Control Devices)

IEC 62386-301 and -332. (DALI-2 Instance Types Push Button and Feedback Feature Type)

EC Council Directives

2014/35/EU Low Voltage

2014/30/EU Electromagnetic Compatibility (EMC)

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

Important Notes

These products do not contain any wireless capabilities, ie no WiFi, Bluetooth, NFC, Zigbee, Thread, etc.

Contact Information**More Solutions Ltd**Registered in England, UK
(0456 0902)www.more-lighting.co.uk[+44 344 251 1450](tel:+443442511450)sales@more-solutions.co.uk**Manufacturer Information****Ozuno Trading Pty Ltd**www.ozuno.com

ABN: 96 621 194 483

[+61 8 8362 7584](tel:+61883627584)sales@ozuno.com

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

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DALI and **DALI-2** are trademarks of the Digital Illumination Interface Alliance.

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5041NMS is an orderable part number of Schneider Electric (Australia) Pty Ltd.

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