

DALI Buswire One ZP module

product ref: 205Z1

delmatic.com

sheet 1/2

The module provides individual addressable control and monitoring of up to 64 DALI devices as well as enabling the connection of 16 DALI sensors/switches: in addition the module provides energy-optimised DALI Zero Power switching of up to four lighting circuits powering the lamps to eliminate standby power consumption.

- individual addressing and monitoring of up to 64 DALI ballasts / drivers
- also accepts connection of additional 16 DALI sensors / switches
- individual DALI lamp and ballast failure monitoring
- individual DALI emergency light testing and monitoring per DALI device
- DALI sensors, switches and emergency devices connect to the DALI bus
- energy-efficient DALI Zero Power avoids standby power consumption
- four switched 230V outputs via addressable relays

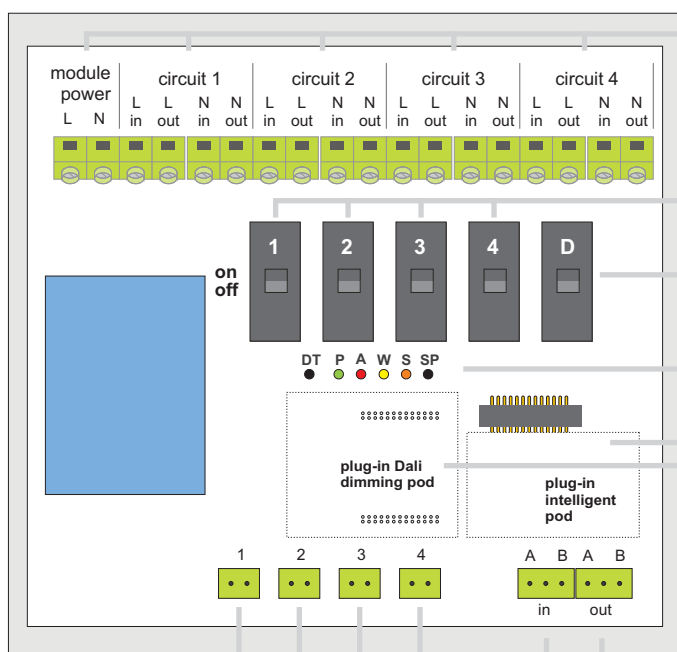
The module individually addresses up to 64 DALI lamps via the two core DALI bus. The mains supply to the lamps is fed via four 20A switching relays integral with the module: software algorithms analyse occupancy and the relays switch off power on each output where all DALI lights are at zero output.

Up to four circuits are available to power the lamps but because DALI is not SELV they should be limited to single phase.

Dali ballast addressing

The ability to individually address DALI lamps on a common buswire requires each ballast to be addressed; this has to be done after installation on site with associated time and cost considerations: addresses are assigned using a hand-held programmer or laptop computer.

module features



Dali network output up to up to 64 Dali ballasts/drivers and up to 16 Dali sensors/switches. Four ports operate in parallel and relate to switched relay outputs 1 to 4.



To avoid the need to address ballasts on-site, Delmatic offer a range of Dali controllers including Dali Broadcast Modules and Dali Plug-in Modules.

mains terminals for connection of incoming mains circuits and switched outputs to lamps. Module 230V power from fused spur or one of incoming circuits

four 16A mechanically-latched relays (1-4) with on/off status indication and manual override - in the event of electronics failure relays maintain their last state and may be manually operated on and off from override switches accessible through the module lid.

Dali override relay which opens/closes the Dali bus to the Dali lamps and enables all powered Dali lamps to be set to default 100% operation.

diagnostic LEDs and service pin

Power LED - indicates module is powered up

Alert LED - lights to indicate a short on the Dali bus

Wink LED - winks when instructed by software

Service LED - lights when service pin pressed and flashes if module has no application software

SP service pin - uploads module address

DT Dali test button - pressing button for 2 seconds transmits an on/off/dimming command to all ballasts enabling the operation of luminaires to be verified.

plug-in intelligent pod provides distributed intelligence, stores module operational parameters and enables seamless integration with other Lon devices

plug-in DALI dimming pod

Lon bus - plug-in terminals for connection of polarity insensitive two core Lon bus (in from router or previous module and out to next module).

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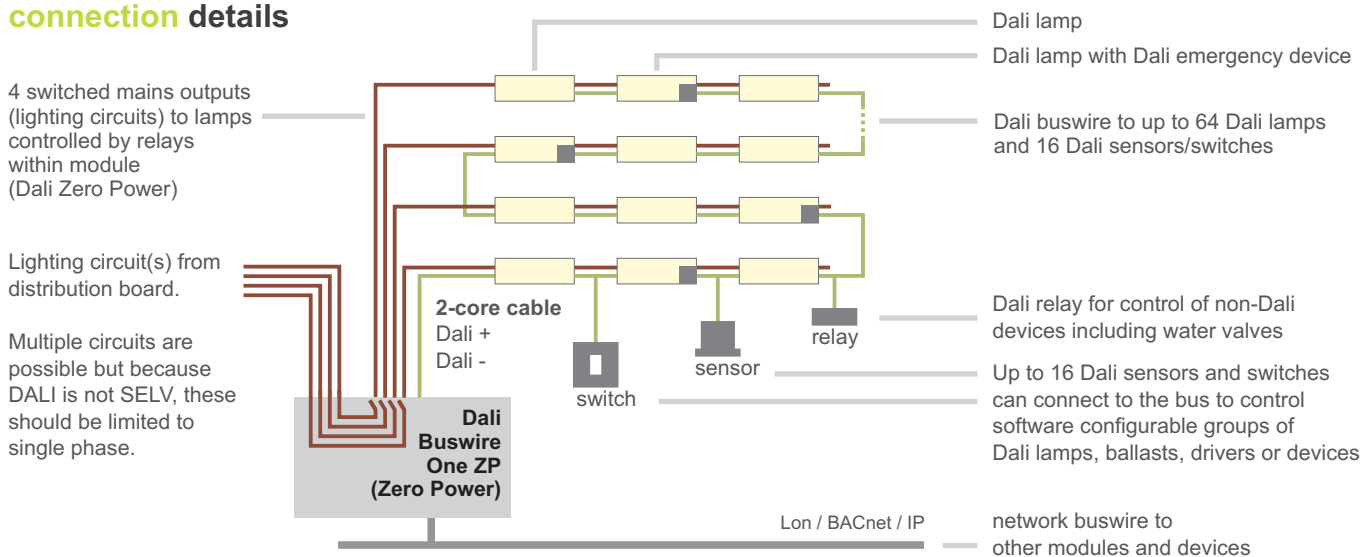
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connection details



technical details

outputs

DALI buswire output controls up to sixty-four DALI ballasts/drivers.

Four switched outputs (20A) switch 230V feed to lamps via mechanically-latched relays for DALI Zero Power

DALI monitoring

Module monitors and displays individual lamp/ballast failure for up to sixty-four DALI devices. Module monitors individual DALI emergency lamps/devices and displays emergency lamp and device failures on an individual basis.

DALI sensors, switches and emergency devices

Module accepts 16 DALI sensors, switches and switch interfaces on the DALI buswire plus DALI emergency devices.

DALI bus connection

Four 2-pin ports for DALI bus connection (max 1.5 sq.mm cable): the four ports operate in parallel and relate to switched outputs 1, 2, 3 and 4.

network Lon bus inputs

2 plug-in ports for twisted pair Lon network bus connection.

buswire specification

for latest buswire specifications and cable lengths refer to Buswire Specification data sheet

supply voltage

1 x 220-240V~ 50/60Hz single phase power supply to power module (or from incoming lighting circuit).

diagnostic LEDs

Power LED - shows secondary power circuit operational.

Alert LED - indicates short on the sensor bus or issue with Communication card.

Wink LED - winks when instructed through software

Service LED - indicates fault mode.

construction

painted galvanised steel enclosure finished RAL 7035

ambient temperature / relative humidity

0 to +50°C / 20% to 90% non condensing

dimensions (mm)

200 w x 225 h x 70 d

Lon specification



FT5000 Neuron and FTX3 transceiver conforms to LonMark 3.4 profiles:

16 switch objects	# 3200
16 light sensor objects	# 1010
16 occupancy sensor objects	# 1060
16 open-loop actuator objects	# 0003
16 occupancy controller objects	# 3071
16 light controller objects	# 3050