

PL531E

Prolojik

10 Port DALI LCM

The PL531E is a 8 input/10 output, pluggable Networked DALI lighting control module.



Key Features

- Ultra compact form – 47.5mm installed depth
- Digital control
- Unique Install Check™ verification feature
- EM testing, monitoring and diagnostics
- Fully distributed intelligence
- Elegant structures cabling facility
- Single fix install
- Choice of pre or post install commissioning
- Constant lux
- Presence / absence detection
- On, Off, Up, Down switch inputs
- Scene Setting

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Specification

Features

10 circuit lighting control module
Integral DALI master (mac 45 DALI addresses)
Digital control (DALI – PL531E)
LonWorks™ Interoperable solution
Simple integration and wiring
Extra low depth for shallow ceiling voids

Outputs

10 x independently addressable outputs
Emergency light test instigation

Inputs

4 dedicated switch inputs for retractive or latching switches
4 DALI ports for PS432 DALI sensors or PC630 DALI scene plates
(Max 10 x P432 sensors)

Networking

LonWorks™ network TP/FT-10 (Capacitor decoupled) DALI on output port pins 5 and 6 (PL531)

Terminations

Mains input LonWorks™ interface
Switch connections
DALI Bus connections
10 x outputs

Dimensions

255mm c 250mm x 47.5mm (L x W x H)
255mm x 300 mm x 47.5mm (L x W x H) including mounting points

Fixings

2 x 9mm fixing holes (suitable for drop rod and surface mounting)
4x7mm holes for drop rod or surface mounting

Safety

EN 60 950 Isolation: 4kV between mains and sensors / network / digital control

Conformity & Standards

EMC emissions: EN 61000-6-3
EMC immunity: EN 61000-6-1
RFI: EN 55 014
LonMark™ compliant DALI compliant
ARCOM MasterSpec 2013 Classification 20 09 43.23

Environment

Storage
Temperature: 10°C – +60°C
Humidity: 0% – 90% non-condensing

In Use

Temperature: 0°C – +40°C
Humidity: 10% – 90% non-condensing

Mains Input

Mains supply: 230Vac +/- 10%; 50Hz
Connection: Input male socket for PC013
Wieland GST18i3 female plug
Plug not included (Available from Prolojik)

Outputs

Connections: Output female socket for PC016 Wieland GST18i3 female plug
Switching capability: 1000VA per output maximum
Maximum total load: 16A total peak load – refer to Prolojik for load types
Emergency maintained capacity: 1000VA total maximum
Digital dimming: 250mA maximum 15Vdc (PL531E)
Maximum 64 DALI addresses per PL531E

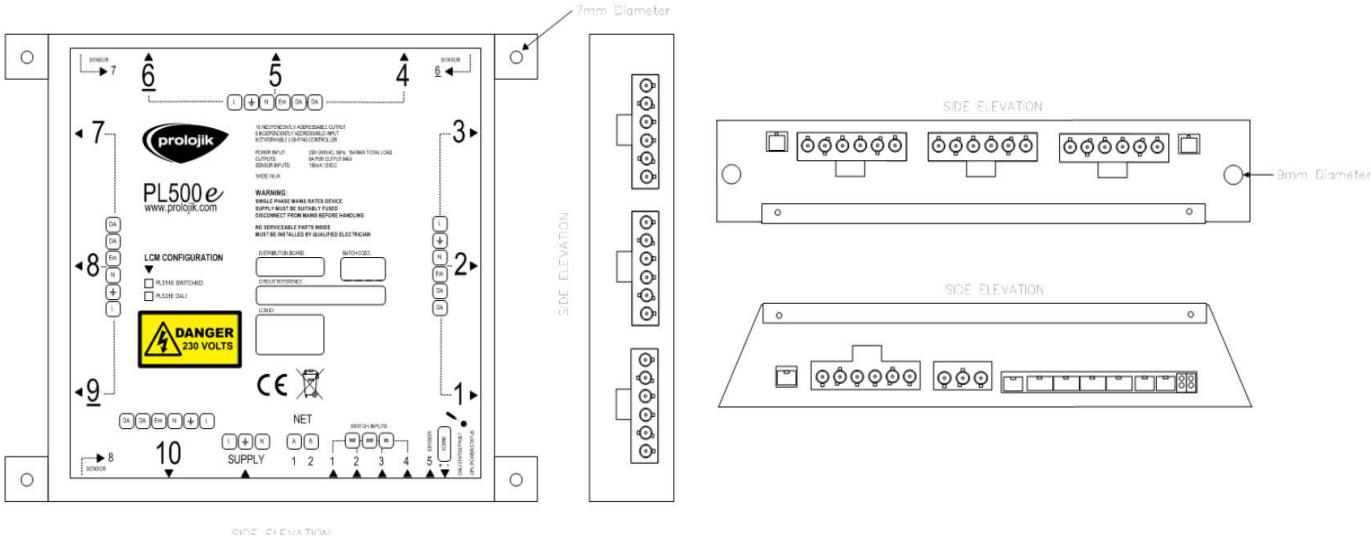
DALI Ports & Switch Inputs

Scene supply: L12Vdc +/- 5%, 30mA sensor isolation: 2kV
Plugs not included (Available from Prolojik)

Power Consumption

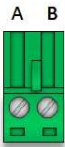
At rest: 0.6W
Fully loaded: 10W

Technical Data



Network

2 pole rising clamp 5.08mm pitch
Captive screw CTB9200A Series
Cable diameters 0.5 to 2.5mm. CE and UL approved
Network plugs must be Prolojik Part: PC062
Phoenix Contact MSTB 2.5/2-ST-5,08
Phoenix Contact Part: 1757019
Or for T connection use Prolojik Part: PC062T
Phoenix Contact TMSTBP 2.5/2-ST-5,08
Phoenix Contact Part: 1853010
Or Equal and Approved
Beldon 8471NH or equivalent to be used for network.
If in doubt, please contact Prolojik Limited



Power

Wieland GST18i3 female plug
Prolojik Part: PC013
Wieland Part: GST 18i3 F B2 Z
Wieland Order: 92.933.0053.1
16 A 250V rating Screw clamp connections for L,N,E Cable cross section area from 0.5 to 2.5mm²



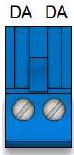
Switch Inputs

3 Pole MSTB 5.08mm plug
Prolojik Part: PC003
Metway Part: 121A1113
Terminations for ON/UP, OFF/DOWN and COMMON
Cable cross section area from 0.5 to 2.5mm²



DALI Ports

2 Pole MSTB 5.08mm plug
Prolojik Part: PC032
Metway Part: 121A1112
Terminations for DA and DA
Cable cross section area from 0.5 to 2.5mm²

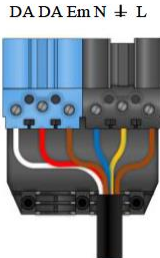


Output (DALI/Emergency)

Wieland GST18i6 male plug
Black/Blue

Prolojik Part: PC016
Wieland Part: GST18i6 S
S1NZR1V Wieland Order: 92.968.0158.1

16 A 250V rating Screw terminal for L, N, E, Em, DA and DA Cable cross section area from 0.5 to 2.5mm²



Output (Switched)

Wieland GST18i3 male plug
Wieland Part: GST18i3 F S2 Z
Wieland Order: 92.934.0053.1
16 A 250V rating Screw terminal for L,N and E Cable cross section area from 0.5 to 2.5mm²

