Lon Lon Router

delmatic

Delmatic's Lon Lon Router forms part of the building-wide lighting management system architecture, ensures open and seamless communication across the horizontal and vertical networks and optimises the transmission of data.
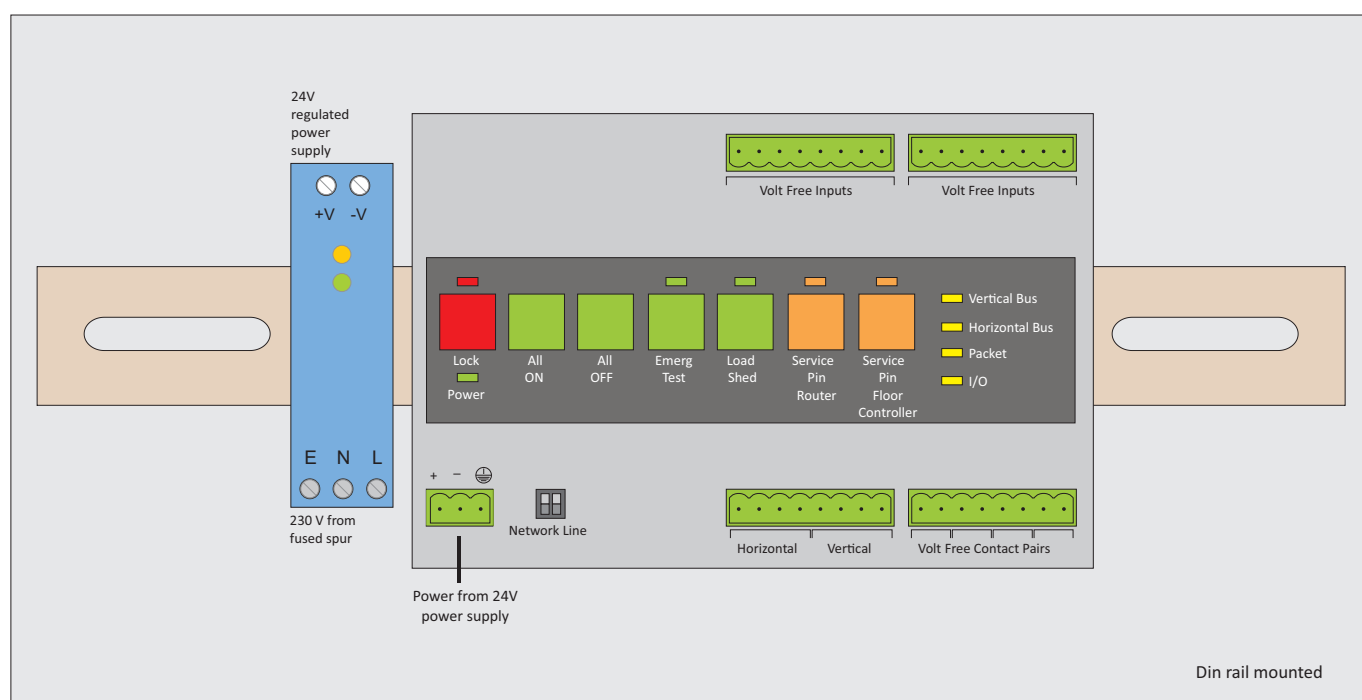
Code protected controls provide access to master on and off functions and emergency test routines. The Router accepts remote firmware upgrades and provides direct inputs for master on and off control, loadshedding and emergency-test functions.

The router allows the connection of a lap-top for configuring and monitoring of the network, and includes integral selectable network termination resistors.

A Smart IP router (with optional BACnet integration) is also available for transmission of lighting management data across the IP network.

LonMark

router features

controls

Service buttons, Lock button
Master on / off control
Emergency test start / stop control
Loadshed start-stop
Network line resistance selector

digital inputs

4 volt free inputs

indicators

Power On
LonWorks Transmit and Receive activity
Emergency test active
Service LED (node) and Service LED (router)

relay outputs

4 SPST relays rated max 50VDC@10mA - 1A
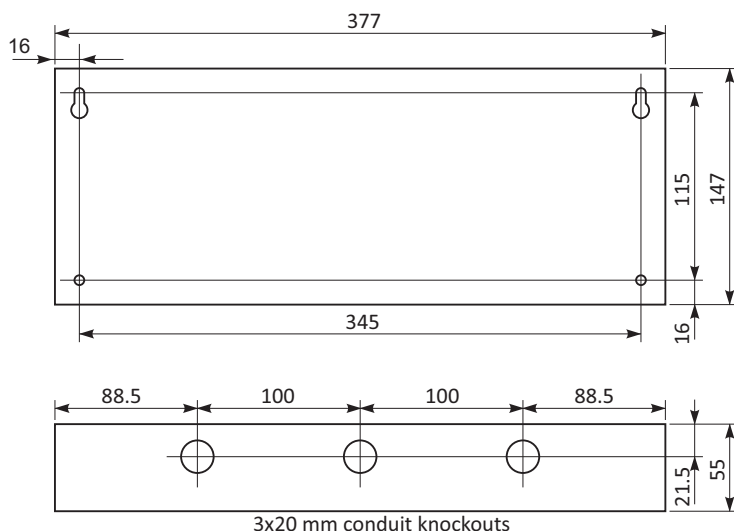
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mounting and dimensions

The Lon Lon Router should be installed in an accessible location, ideally at a height of 1.5 m from floor level.

The box is mounted using four M5 screw fixings. The top two holes use keyhole fixings for ease installation.

All dimensions in millimetres.

Top and bottom sides contain
three 20 mm knockouts for conduit entry.

3x20 mm conduit knockouts

technical details

network connections
plug-in terminal connections - max cable size 1 sq.mm

operating input voltage
24V DC typically supplied by 100 - 240VAC (-6%/+10%), 50/60Hz

power consumption: <15 watts

operating temperature: 0 to +50°C

operating humidity : 10 to 90% RH @ 50°C (non-condensing)

network capacity
supports up to 60 lighting control modules

connectivity
connects to vertical network bus linking all routers via free-topology twisted pair cable.

connects to horizontal field bus linking up to 60 lighting
control modules served by the router via a free-topology twisted pair cable.

buswire specification
refer to Buswire Specification data sheet

network cable length
500m (maximum total free topology without repeater)

dimensions
380 (w) x 150 (h) x 70 (d)

housing/enclosure
Mounting: Painted galvanised steel enclosure
finished RAL 7035

Lon interface
protocol: ANSI/EIA 709.1-A-1999 (LonTalk protocol)
transceiver: FTT-10A Transceiver
network: polarity insensitive
bus voltage: max 42.4 V DC