



Technologies

Next Generation - Intelligent LON[®]

Fibre Optic Router



Quick Installation Notes

Power Input

Typical Power input: 24VDC @200mA, power on indicator green LED.

Power inputs are polarity insensitive. {Operating voltage: ± 10 -50 VDC or 12-30 VAC}

RTR-10 Echelon Router Configuration

The internal RTR-10 Router is factory setup as “configured-online” repeater. The user will need to change the factory settings for the router as “un-configured” for the LNS management software to administrate the node.

{Note: Using LNS automatic node ‘discovery’ works on nodes that are “un-configured”.}

Internal ‘Fibre Transceiver’ Node Status Reporting via Network

Node status reporting supported via the on-board Neuron as follows:

{Neuron code can be created adapting to customer requirements.}

1. ‘Change’ in Fibre port i.e. link loss, Link active or port failure causes the node to send current port status out to the network.

‘Network Variable’ Node Status provided as follows: {See fibre transceiver install notes for further definition}

1. nvoNetworkStat
2. nvoLeftPortStat
3. nvoRightPortStat
4. nvoPortFailure
5. nviRelayControl
6. nviRelayEnable

Fibre Port Installation

Fibre ports must always be connected so that a left port is connected to a right port of the next node in the ring. Segments must obey the same rules; i.e. even if only two nodes are connected, the left port of one must connect to the right port of the next. All connections must be made with multimode or singlemode Fibre optic cable. Minimum use of patch panel connections is recommended, as each patch introduces optical loss.

Copper Port Installation

The copper connections are labeled on panel as “TPX” and are polarity insensitive.

Fibre Port LED indicators

1. 'Solid green' LED means the fibre port is receiving link signals from far node and the fibre network is operating redundantly.
2. 'Solid yellow' LED means the fibre port is receiving link signals from far node and the fibre network is operating as a 'segment' or 'multidrop'.
3. 'Fast Blinking yellow' LED means link loss i.e. no link pulses received from far end node.
4. 'Slow Blinking yellow' LED means port failure i.e. packets received on this fibre port are corrupted, CRC packet errors or no packets received while port is linked.

Router LED indicators

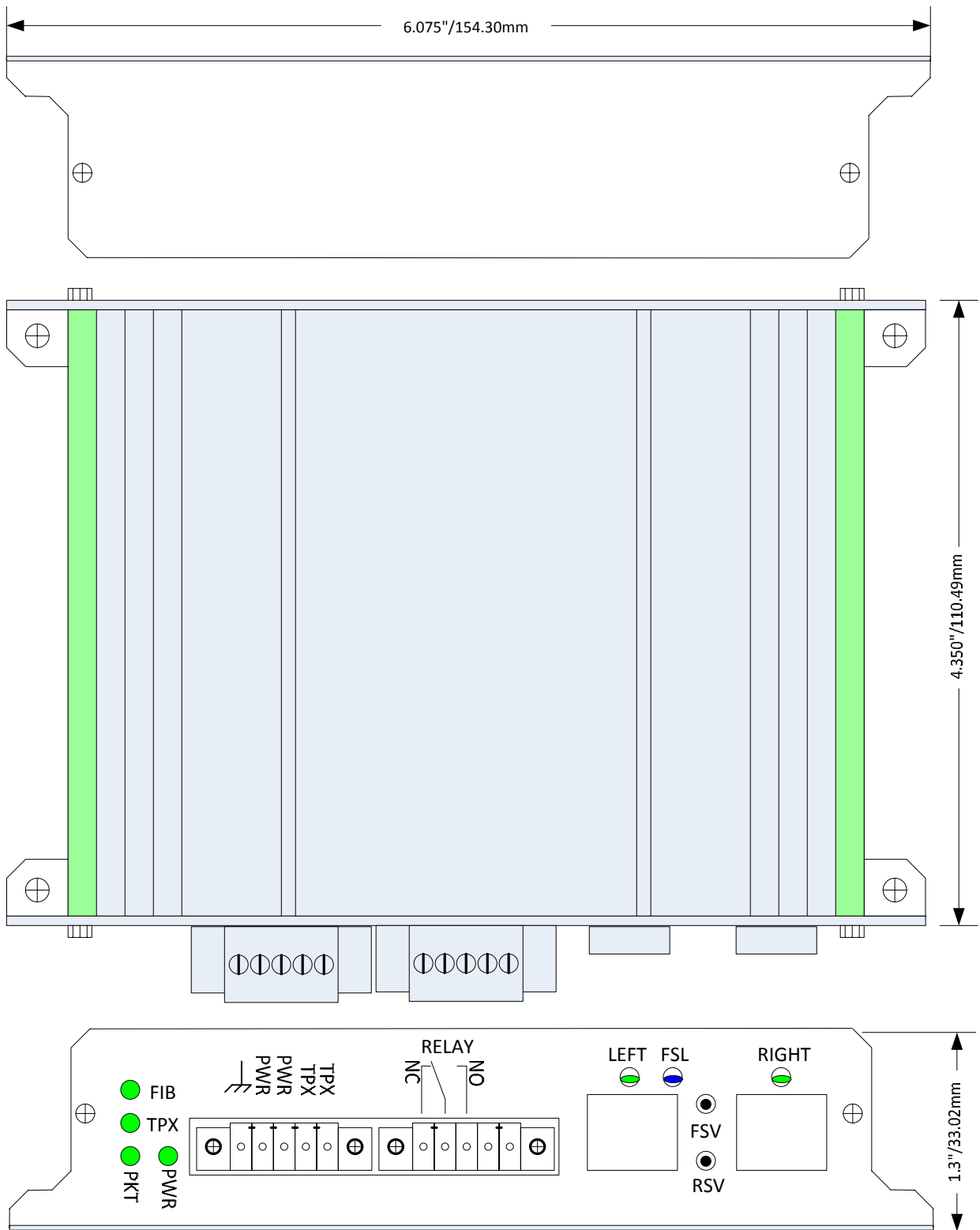
1. "FIB" green LED means the service Fibre side of the router is active.
2. "TPX" green LED means the service Copper side of the router is active.
3. "PKT" green LED means a LON packet has passed thru the router.
4. "FSL" blue LED means fibre Transceiver Neuron service status.

Router "Pin-hole" Push Buttons

1. "RSV" is the Echelon RTR-10 LON Router service button.
2. "FSV" is the Fibre Transceiver Neuron service button.

Mechanical Relay

The on-board mechanical relay provides node status of fibre ports by activating when the fibre port link is lost or fibre port failure. The on-board mechanical relay provides SPDT operation supporting the following voltages: 240VAC@5Amps, 120VAC@10/5Amps, 28VDC@10/5Amps



Intelligent LON® Fibre Router (RTR-10) to TPX (Copper) with Fibre Failure Alarm Relay

Note: Optional DIN Rail mounting adapter available.

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