



Module Status LED

This bi-color (green - red) LED provides device status. It indicates whether or not the device is powered and operating properly. Table 1 defines the different states of the Module Status LED.

Table 1

Status	LED state	Reason
Power off	Off	- No power applied to the device - Host LINK2 module is not running its configuration
Device in standby Needs to be commissioned	Flashing green	Device needs commissioning because of missing, incomplete or incorrect configuration
Device operational	Green	The device is operating in a normal condition
Minor fault	Flashing red	Recoverable fault
Unrecoverable fault	Red	Device has identified an unrecoverable fault. May need replacing
Device Self-testing	Flashing Red / Green	Device in self-test mode

Network Status LED

This bi-color (green - red) LED indicates the status of the communications link. Table 2 defines the different states of the Network Status LED.

Table 2

Status	LED state	Reason
Power off or not on-line	Off	The device is not on-line. - the device has not yet completed the Dup_MAC_ID test - the device may not have power applied to it. Look at Module Status LED
On-Line but not connected	Flashing green	The device is on-line, but has no connections in the established state - Passed the Dup_MAC_ID test, is on-line, but has no established connections - For a Group 2 only device: Device is not allocated to a Master
Link OK, on-line, connected	Green	The device is on-line and has connections in the established state For a Group 2 only device: Device is allocated to a Master
Connection time-out	Flashing red	One or more I/O connections are in the timed-out state
Critical Link failure	Red	Failed communication device. The device has detected an error that has rendered it incapable of communicating on the network. Could be duplicate MAC_ID or Bus-off
Communication faulted Received Identify Comma Fault Request Long protocol	Flashing Red & Green	Specific communication faulted device. The device has detected a network access error and is in the Communication Faulted state. It has subsequently received and accepted an Identify Communication Faulted request - Long protocol message

TECHNICAL SPECIFICATIONS

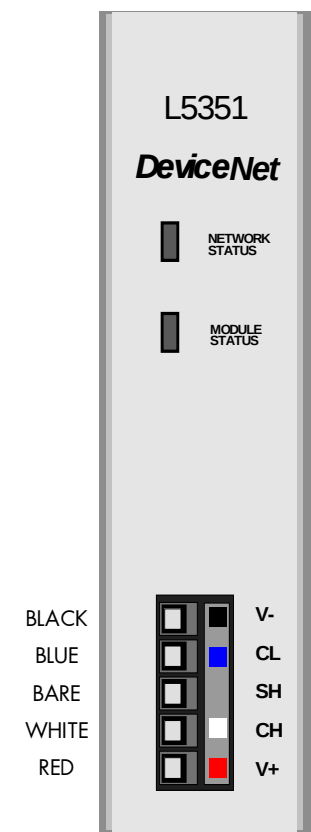
Environmental	
Operating temperature	0°C to 50°C (32 to 122°F)
Storage temperature	-10 °C to +70 °C (14 to 158°F)
Humidity	85% RAH. in a dry, non-condensing environment
Enclosure Rating	Touchsafe IP20. To be mounted inside a Eurotherm L53XX series enclosure
Supply	
Supply Voltage	5VDC, supplied by backplane 11- 24VDC, supplied by network
Current Consumption	120 mA @ 5VDC, 30 mA @ 24VDC
Power Dissipation	0.8 W
DeviceNet	
Connection Types	Explicit messaging and polled I/O connections provided via Predefined Master/Slave connection set. Fragmentation supported for both polled I/O and explicit connections
Baud Rate	125K, 250K and 500Kbaud
Data Types	Bits, Unsigned Integers (LINK Ordinals), signed integers (LINK values)
Transport Class Trigger	Server Transport class 2
Indicators supported	Network status bi-color LED, Module status bi-color LED
DeviceNet loading	27 mA
Transfer delay	Typically < 7 ms LINK input to DeviceNet output and vice-versa
Configurability	LinkCard configuration performed using ConfigEd. DeviceNet network and PLC programmed independently
Connector type	5 pin Phoenix Combicon or equivalent. Cable connector part number MSTB 2.5/5-ST-5.08-AU
Physical	
Height	120mm (4.72 in)
Width	32mm (1.25 in)
Depth	90mm (3.54in)
Weight	0.16 kg (0.35 lbs)

L5351 DeviceNet™ LinkCard

GENERAL DESCRIPTION

DeviceNet™ is an open-protocol network standard that provides low cost direct connectivity with DeviceNet™ compatible components. The L5351 DeviceNet™ LinkCard is part of the LINK2 family and provides a gateway between a LINK control system and DeviceNet™, when installed in a LinkStation or LinkRack. At present, the L5351 will operate as a Group 2 only server and must be controlled by a DeviceNet™ master (client), such as a scanner in a PLC.

Terminals are in the form of a pluggable screw connector. Terminal designations are color-coded for DeviceNet™ and are shown in the figure.



FUNCTION BLOCKS

The L5351 is a function block which can be used within a LinkRack L5300 or LinkStation L5392 configuration. It is accessible using the Windows™ based graphical configuration package, ConfigEd 5, by opening an L5300 or L5391 file. Clicking on **Block/LinkCard/L5351 DeviceNet** makes the L5351 block appear. Double-click on it to set the Mac ID, Baud rate and “Site” information. This refers to the slot number in the L5300 or L5391 where the DeviceNet LinkCard is inserted. Choose from J1 (leftmost) to J4 (rightmost). To send or receive bits, use a **DNet Bit Register** block; for values use the **DNet SInt Register** block; and for integers or ordinals, use the **DNet UInt Register** block. After creating the required registers, they should be mapped in the **L5351 DeviceNet** block, which acts as assembly instance (#1). For details, refer to the on-line function block descriptions and specifications under the **Help** menu in ConfigEd.