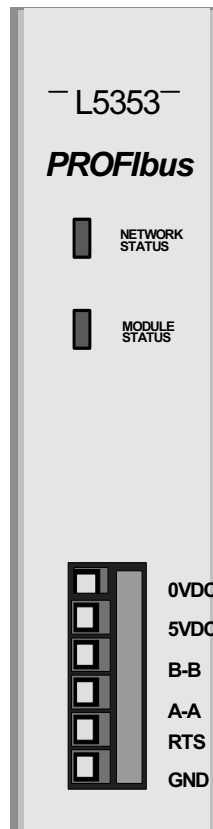


L5353 PROFibus™ LINKCard

GENERAL DESCRIPTION

PROFibus™ is an open-protocol network standard that provides low cost direct connectivity with PROFibus™ compatible components. The L5353 PROFibus™ LINKCard is part of the LINK2 family and provides a gateway between a LINK control system and PROFibus™, when installed in a LINKStation or LINKRack. At present, the L5353 will operate with and must be controlled by a PROFibus™ 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 PROFibus™ and are shown in the figure.



FUNCTION BLOCKS

The L5353 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, DSD, by opening an L5300 or L5392 file. Clicking on **Block/LinkCard/L5353 PROFibus DP** makes the L5353 block appear. Double-click on it to set the "Site" information. This refers to the slot number in the L5300 or L5392 where the PROFibus LINKCard is inserted. Choose from J1 (leftmost) to J4 (rightmost). After creating the required registers, they should be mapped in the **L5353 PROFibus** block, which acts as assembly instance (#1). For details, refer to the on-line function block descriptions and specifications under the **Help** menu in DSD.

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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	<ul style="list-style-type: none">No power applied to the deviceHost LINK2 module is not running its configuration
Device in standby Needs to be or in process of being commissioned	Flashing green	Device is being commissioned or Device needs commissioning because of missing, incomplete or incorrect configuration
Device operational	Green	The device is operating in a normal condition
Configuration fault	Red	LINK2 configuration calls for too many reader/writer blocks.
Device Self-testing	Flashing Red / Green	Device in self-test mode
Device Self-test failure	Flashing Red	Device self test failure – may need replacing, try power down up sequence

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. <ul style="list-style-type: none">the device has no Profibus Masterthe device may not have power applied to it. Look at Module Status LED
On-Line	Flashing green	The device is on-line <ul style="list-style-type: none">Profibus Master cycling through its configuration steps
Link OK, on-line, connected	Green	The device is on-line and has connections in the established state <ul style="list-style-type: none">Owned by, communicating with, correct configuration between L5353 and Master
Connection time-out – lost Master connection	Flashing red	Master connection previously established has been lost and has not been reestablished
Critical Link failure	Red	Link2 configuration does not match that of the Master

L5353 PROFibus™ LinkCard

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% RH. 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 5VDC supplied to network (isolated - 20mA maximum)
Current Consumption	250 mA @ 5VDC
Power Dissipation	1.375 W

Profibus

Connection Types	Process Data parameters selected by PROFIBUS-DP Master. Demand Data protocol to provide random access to any network parameter.
Baud Rate	Auto-Baud search 9.6/19.2/93.75/187.5/500/1500Kbaud and 12Mbaud
Data Types	Unsigned Integers (<i>LINK</i> Ordinals)
Indicators supported	Network status bi-color LED, Module status bi-color LED
Profibus Loading	25mA
Transfer delay	Typically < 1 ms <i>LINK</i> input to PROFibus output and vice-versa
Configurability	LINKCard configuration performed using DSD. PROFibus network and PLC programmed independently
Connector type	6 pin Phoenix Combicon or equivalent.

Physical

Height	120mm (4.72 in)
Width	32mm (1.25 in)
Depth	90mm (3.54in)
Weight	0.16 kg (0.35 lbs)

