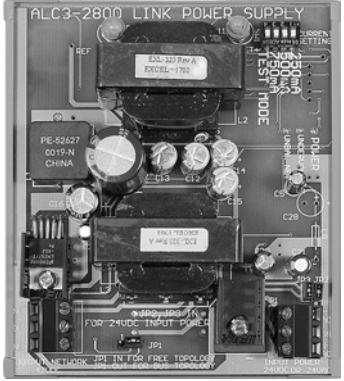


	PART No.	DESCRIPTION	SPECIFICATION
	ALC3-2800-750	<ul style="list-style-type: none"> The ALC3-2800-750 Active Link Power interface provides conditioned power for a LonWorks Link power network. The ALC3-2800-750 interface can be powered by either 24VDC or 24VAC. The power supply is isolated from the communication signals and provides proper termination impedance for the balanced data signals. The ALC3-2800-750 interface "centers" the output voltage (data signal) with respect to ground resulting in +21V and -21V outputs at "Net+" and "Net-" respectively. The outputs are protected against: <ul style="list-style-type: none"> - shorts - faults to ground - current overdraw - undervoltage 	<p>Power</p> <ul style="list-style-type: none"> Power supply can be 24VAC or 24VDC. Input voltage range: 20V to 35V Power source to the ALC3-2800-750 must be able to provide 1000 mA. <p>Output</p> <ul style="list-style-type: none"> LonWorks Link Power Data Signal carrier. +Net is +21VDC and -Net is -21VDC with respect to the earth ground. The 42VDC differential is the optimal operating condition of the ALC3-2800-750. Due to loading, the operating range of the unit can vary from 34VDC to 42VDC. The output current can be adjusted to protect connected devices from drawing too much current. Settings permit 250mA, 500mA and 750mA settings. Should the devices draw too much power, the unit will shut down in less than 20msec.

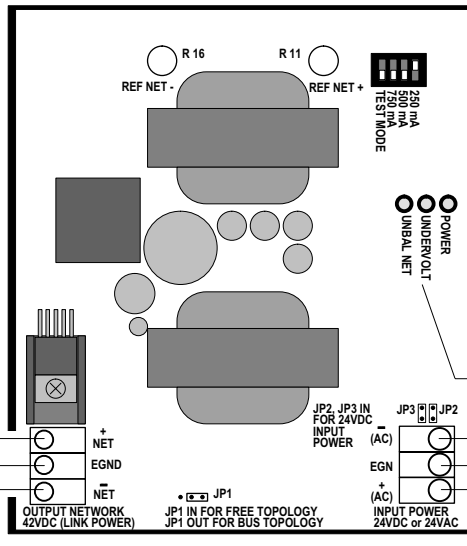
ALC3-2800-750 Active Link Power Interface

Balancing Potentiometers

- Balancing Pots (R16 & R11) are factory set and should not be adjusted.
- Test Mode dip switch is also factory set and should not be adjusted.

Link Power Data Signal

- The Link Power Data Signal generated by the ALC3-2800-750 unit provides a +21VDC and -21VDC signal "centered" about the earth ground.



Current Limiting Dip Switches

- 250 mA
- 500 mA
- 750 mA

- The test mode dip sw must always be in the position shown.
- If a dip setting is made that differs from the options shown, both of the red leds flash.

Status Leds

- See table below

- The ALC3-2800-750 unit has a number of safety features to protect devices connected to the data signal.
 - Undervoltage protection
Output switches off. Unit then re-tries start-up routine.
 - Current protection
Output shuts off with-in 20msec of overcurrent condition. Unit then re-tries start-up routine.
 - Short circuit protection
If both outputs shorted, outputs will switch off. Unit then re-tries start-up routine.

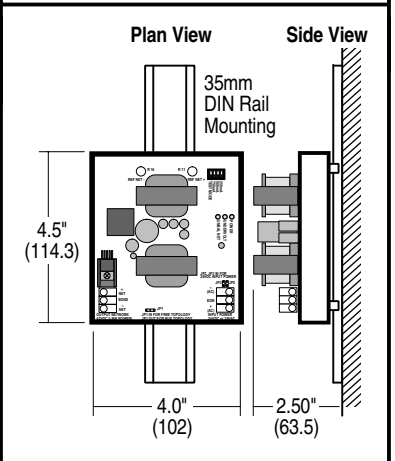
Environment

- Indoors, stationary, non-vibrating, non-corrosive atmosphere and non-condensing humidity.
- Ambient operating temperature: 0°F to +120°F (-15°C to +50°C)

LonWorks NETWORK DATA

Not Applicable

DIMENSIONS & MOUNTING



Topology Wiring	JP1 Position	Topology type and wiring limit
Free Topology	1 ● ●	- Accumulated length no greater than 500 m (1600 ft)*
Bus Topology	1 ● ● ● No Jumper	- Total length no greater than 2200 m (7000 ft)*

* 16 AWG, Twisted pair, No shield (Belden 85102, 8471)

Status LEDs	Unbal Net (Red)	UnderVolt (Red)	Power (Green)	42VDC Data Signal
UnderVoltage Fault	Off	On	Off & Restart	Off
Net+ and Net- Shorted	Off	Off	Flash & Restart	Off
Net+ shorted to Ground	Off	Flash	On	Present
Net- shorted to Ground	Flash	Off	On	Present
Over Current Condition	Flash	Flash	Flash & Restart	Off
No Fault	Off	Off	On	Present

Power Terminals

- Supply 24VAC or 24VDC
- JP2 & JP3 in for 24VDC supply
- If JP2 & JP3 incorrectly installed unit will not function until JP2 & JP3 correctly installed.

Start-up Routine

- When input power is first applied to the ALC3-2800-750 unit, the green power led will flash 12 times over a 6 second period. If any fault is detected, the red undervolt and unbal net led's will display as shown in the LED Status table.