



Model 242L Isolator



DESCRIPTION:

The PDC Model DCI-82 dual channel DC isolator is designed specifically to meet the California Department of Transportation, Model 242L specifications. Each channel of the DC isolator shall present a true signal (ground closure) at the output of its optical coupling device when a contact closure causes an input voltage of less than 8 VDC, for longer than 5 milliseconds. A transition from a true to a false signal at the output shall occur when the respective contact closure causes an input voltage of greater than 12 VDC.

All electronics are provided on a single sided P.C. board with an aluminum front panel. The P.C. board is provided with a solder mask, silk screen identifying all component locations and is conformally coated to resist adverse environmental conditions.

HIGHLIGHTS

Input	True State False State	<8 VDC, >5 msec. >12 VDC
Output	Voltage Current	30 VDC max. (open collector) 50 mA. Sink (true state)
Power	Voltage Current	24 VDC 82 mA
Power Supply Isolation	Voltage	1500 V_{rms}
Input to External Channel Isolation	Voltage Resistance	2500 VAC 1000 megohm.
Transient Suppression	Energy	50 Joules
Mechanical	Length Width Height Weight	7.00 IN. 1.12 IN. 4.50 IN. 0.40 LBS.

**170/2070
REQUIREMENTS**

Caltrans

**2YEAR
WARRANTY**