

LR4

Four Channel Latching Relay Module



General Description

The LR4 Latching relay module utilizes latching relays that provide some unique characteristics as outlined:

Low power consumption

Once the control module changes the state of the relay by applying power to a coil, power can then be removed as the relay mechanically latches its state. Conventional relays require the power to be continuously present to hold a relay in one of its states.

Relay state is Non-volatile

Once a relay is set to a desired state the relay will remain in that state even if power is lost to the control module. The only way to change the state of a relay is to send a valid command that instructs the relay state to be changed or by using the manual toggle button.

Specifications

Supply Voltage	9-30 VDC	
Power Consumption	Quiescent	< 2.0 mA
Power Consumption	Peak	< 250 mA
Operating Temperature	-40°C to +60°C	
Relay Type	Latching	
Communications Hardware	SDI-12	
Communications Protocol	SDI-12 Version 1.3	
Digital I/O Input voltage	Maximum	+20 VDC
	Minimum	-12 VDC

