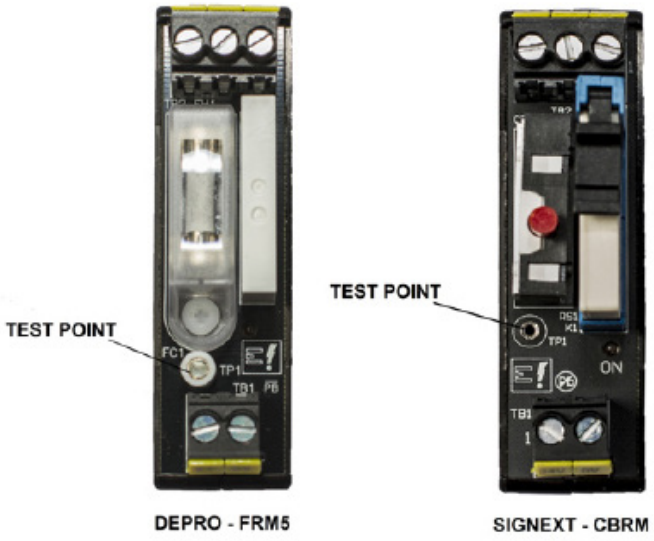
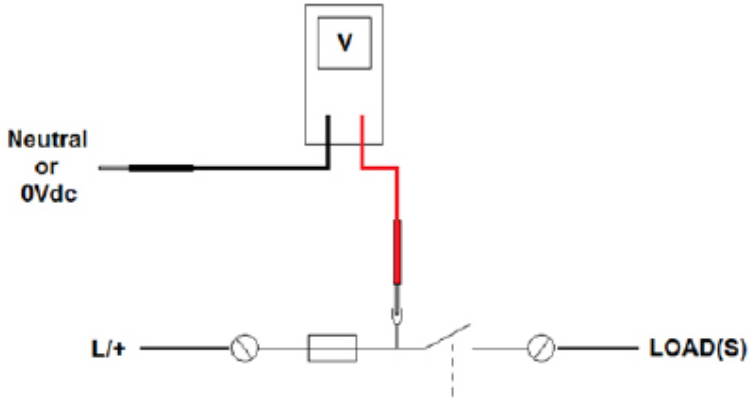
Relay Test Point on Emphatec DePro® and Emphatec SigNext® Relay Modules

Application Note



Emphatec DePro® - FRM5 and Emphatec SigNext® - CBRM relay modules include a test point that can be used to determine the status of the on-board fuse or circuit breaker. Using a voltmeter, the positive lead is touched to the test point while the negative lead is connected to neutral or 0V. A voltage reading means the fuse is good / breaker is osed while a reading of zero volts means the fuse is blown / breaker is tripped. The voltmeter is set to a voltage range suitable for the voltage being switched by the relay contact.



This method of determining the fuse / breaker status was chosen over a status LED because a blown fuse indicating LED would produce a leakage current and would only indicate when the relay contact was closed while a fuse healthy LED would require a neutral or 0V terminal to be added to the module. Fuse status LED's also tend to be optimized for a particular voltage while the test point method means a single module is suitable for 24Vdc and 120Vac loads.

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Subject to technical changes
06/21 CA KE | LIT 1048