

Emphatec InstaLink® - CMM

Continuity Monitoring Module



Features

- Monitors continuity in 24Vdc digital input and output loops
- Provides a digital output if the continuity is interrupted
- Includes a 100mA 5x20mm fuse eliminating the need for additional fuse terminals

The Emphatec InstaLink® - CMM module was designed with process automation in mind. In applications with critical control loops the CMM module provides a continuous indication that the loop integrity is intact regardless of the status of the field device or the PLC/DCS digital output.

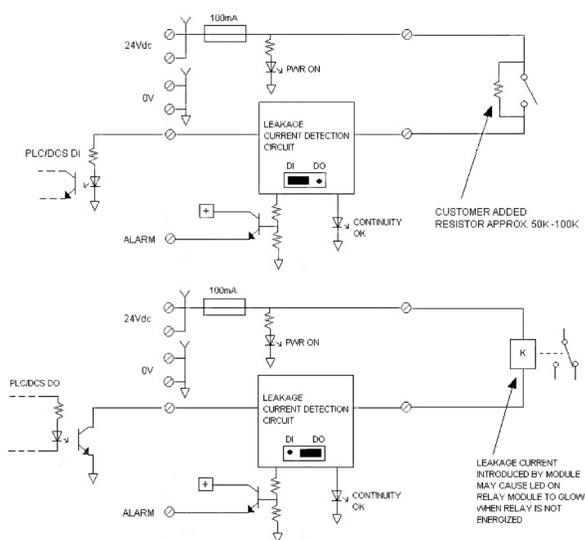
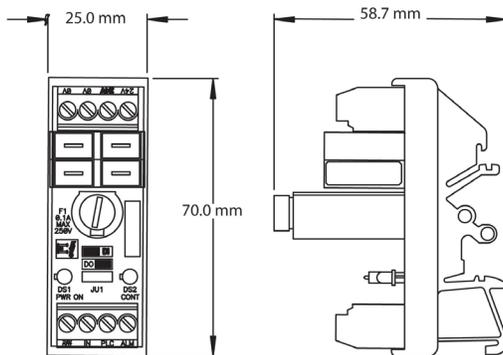
The user configures the module for use with either digital inputs or digital outputs. Configuration is via a jumper on the module. A small leakage current is introduced into the loop and is monitored to verify continuity in the loop. Two status LED's are included, one to indicate 24Vdc is present (the power supply is on and the fuse is good) and the other to indicate continuity (LED on means continuity in loop). The module's digital output is active when the loop continuity is intact.

Like most other Emphatec InstaLink® modules provision is made to jumper the 24Vdc power to adjacent modules. Jumpers are included with each module.

Ordering Data

Type	Order Number
Emphatec InstaLink® - CMM Continuity Monitoring Module	330044

Technical Data



Emphatec InstaLink® - CMM : Continuity Monitoring Module

Order Number 330044

Supply: 24Vdc @ 10mA nominal (excluding current for external relay in DO mode or PLC DI in DI mode)
Cross connections for 24V and OV

Fuse: 5x20mm, 100mA (includes 10mA to power the module and the load current). Green status LED (On=24V present and fuse is healthy)

Digital input: Customer installs resistor of approximately 50K-100KW across field contact introducing approx. 0.2-0.4mA of leakage current. Customer must ensure this does not interfere with normal operation of PLC/DCS digital inputs. Maximum value of resistor is 100KW.

Digital outputs: Module introduces approximately 0.5mA of leakage current between the system side of the load and OV. Customer must ensure this does not interfere with normal operation of the load.

Output: 24Vdc @ 50mA
Active when loop continuity is intact
Green status LED

Operating temperature: -20°C to +70°C

Terminations: 26-12 AWG

Cross connections: 16-14 AWG, 0.187" push-on

Dimensions: 25 x 70 x 58.7mm

Mounting: 32 and 35mm DIN Rails

Approval: cULus Listing E256770

Additional jumpers: catalog number: 330114

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Subject to technical changes

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