

Low voltage

MotorSys™ Ethernet By-pass Switch LTM9BPS

The self-healing daisy chain loop

In order to get all the benefits of the Daisy Chain Loop (DCL) with 2 ring switches, the sub-system must be able to "self-heal" after removal of any Functional Unit (FU).

This can be achieved by installing, outside the drawer, a device that will close the loop shortly after removal of a drawer. We call this device a "By-pass switch".

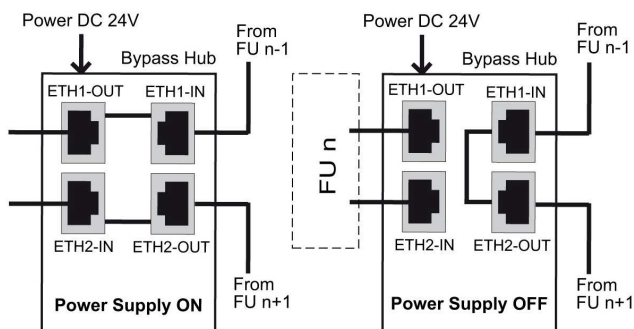
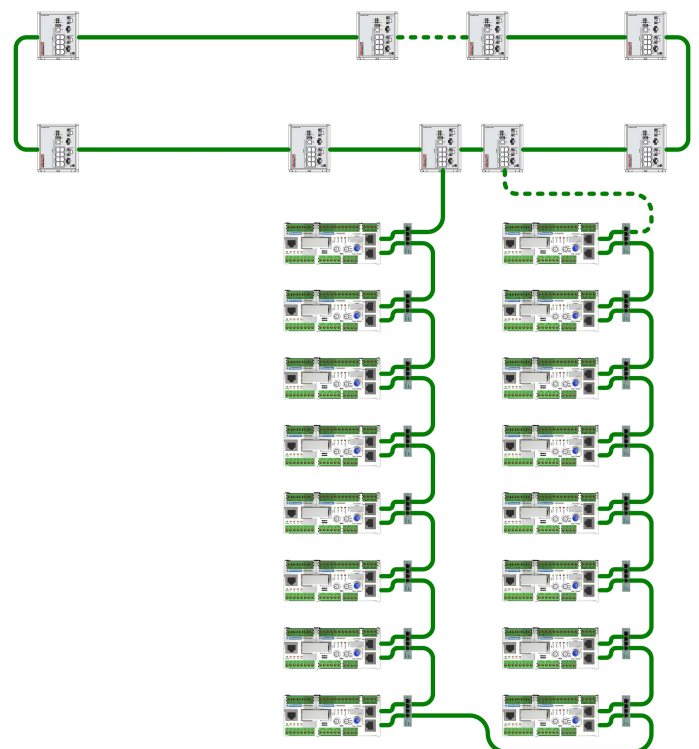
When the drawer is in its place and connected, the by-pass switch is "open", letting communications unchanged.

When the drawer is withdrawn, the by-pass switch is "closed", allowing communications to by-pass the removed FU.

The opening and the closing of the by-pass switch is automatically executed when the position of the FU changes.



Topology

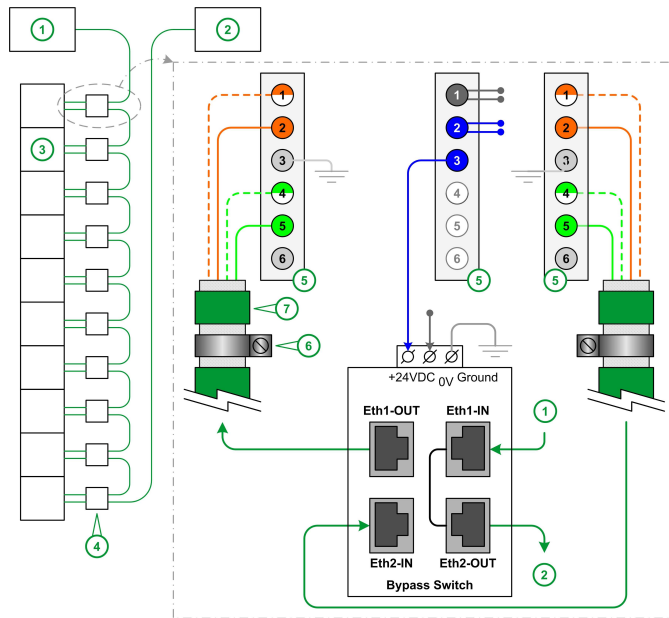


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Wiring solutions

Recommended solution:

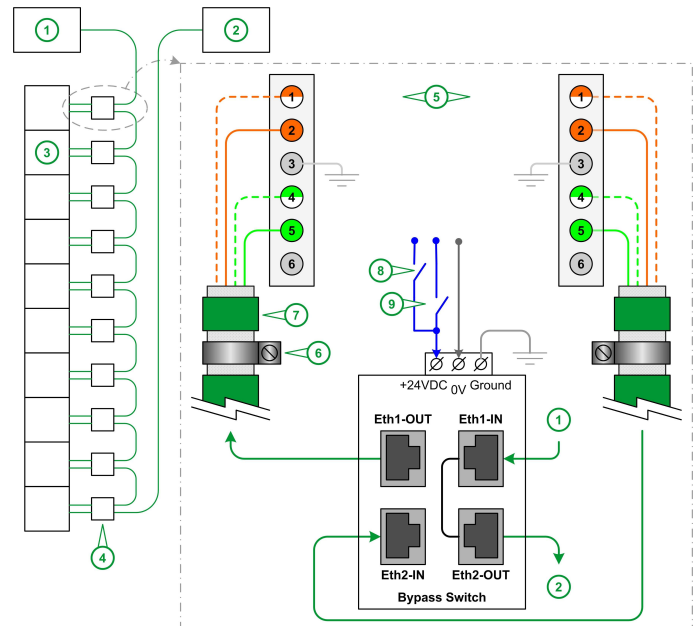
The By-pass Switch is powered through the sliding auxiliary contacts block



- ① Previous column
- ② Next column
- ③ Functional unit
- ④ By-pass switch
- ⑤ Auxiliary connector
- ⑥ The collar to ground
- ⑦ Ethernet cable Cat 5e SFTP or Cat 6 SFTP (no UTP and FTP)
- ⑧ Micro-switch test
- ⑨ Micro-switch Plug-IN

Alternative solution:

The By-pass Switch is powered by the drawer's position micro-switches



- ① Aux. Voltage (- ou ~)
- ② Aux. Voltage (+ ou ~)
- ③ Shield
- ④ Reception Data -
- ⑤ Reception Data +
- ⑥ Transmission Data -
- ⑦ Transmission Data +

Main features

Power Supply: 24VDC

Protection against polarity reversal

10/100BASE-TX Ethernet

2-pair UTP RJ45 connector

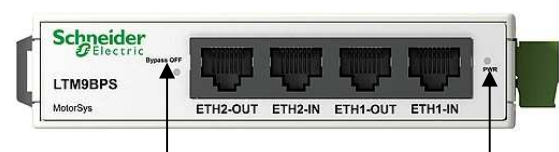
Maximum Transmission Length: 100m

Operational temperature: -10°C to 60°C

Storage and transport temperature: -25°C to 70°C

Dimensions: 26mm (W) x 70mm (D) x 110mm (H)

Weight: 0,2kg



LED Bypass OFF
ON: Bypass ON
OFF: Bypass OFF

LED PWR
ON: Power ON
OFF: Power OFF

Schneider
Electric