



INDUSTRIAL ETHERNET MEDIA CONVERTER WITH CONTACT CLOSURE (MCC-D4)

QUICK INSTALLATION GUIDE

Thank you for choosing Vikings Technology. This guide describes how to install our **MCC-D4** Industrial Ethernet media converter with contact closure. MCC-D4 is designed to transmit and receive 10/100Mbps Ethernet data and bidirectional Contact Closure signal over optical fiber through user selectable SFP module options. Users can use 100Mbps or 1Gbps SFP modules, Singlemode or Multimode, 1 or 2 fiber cores as required and preferred. Any unit can act as transmitter and receiver - all signals are transmitted bidirectionally.

Package Contents

- MCC-D4 x 1
- Wall mount bracket x 1
- This Quick Installation Guide x 1

Safety Guidelines

- Do not look into bores of energized optical fiber cables or optical modules without eye protection - laser beams may cause eye damage.
- Follow all general safety guidelines and instructions installing and handling such low current & low voltage devices.

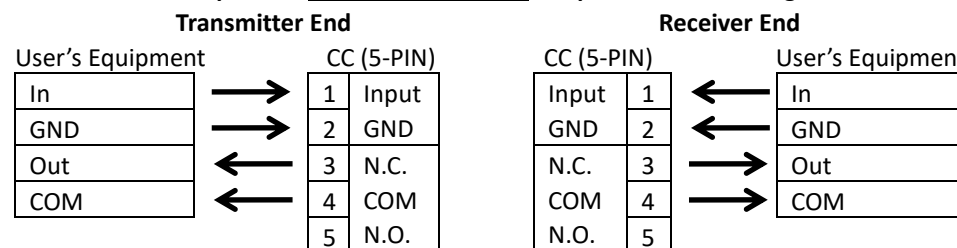
Installation

- To build Ethernet with contact closure connection over fiber, two MCC-D4 converters must be used at different ends of fiber cable. Converters are symmetrical units and can transmit/receive Ethernet with contact closure at both directions at the same speed.
- To install the unit on a DIN rail, lock the upper part of the DIN rail clip on the upper side of the DIN rail and then gently press it until the clip is securely locked on the rail. To install it on the wall, unscrew the DIN rail clip and replace it with included wall mount bracket and screw it on the wall.
- Unit supports 100Mbps and 1Gbps SFP modules. 1Gbps SFP modules are recommended. Insert matching SFP modules and connect fiber cable.
- Connect your network device to the RJ45 Ethernet port with a network cable.
- Connect your Contact Closure cable to green 5pins terminal block. See pins assignment and connection diagrams in tables followed.

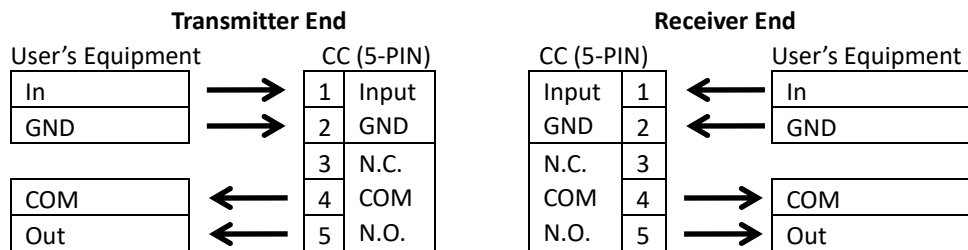
Contact Closure (CC) port pin assignment

Pins assignment (5pins Terminal Block)		1	2	3	4	5
		Data				
Input	Contact closure	Input	GND	N/A	N/A	N/A
Output	Normally Close (NC)	N/A	N/A	Output	COM	N/A
	Normally Open (NO)	N/A	N/A	N/A	COM	Output

Contact Closure Input and Normally Close (NC) Output connection diagram



Contact Closure Input and Normally Open (NO) Output connection diagram



- For better unit's protection against surge, connect the ground cable to the ground screw located on the rear of the unit.
- Connect your power supply (9-48VDC or 9-24VAC range) to green 2pins power terminal block. The device is polarity insensitive, therefore connect + and - contacts as preferred.
- After the device is powered on, the PWR indicator will be on. If the indicator is not on, check the power supply and its connection. If all cables are correctly connected, the indicators will lit as per the following LED status.

LEDs status

LED	Color	Indication
Power	Green	Off: unit is not getting power or failed Lit: unit is powered on
Optical	Green	Off: fiber port is not active Lit: fiber link is established between transmitter and receiver
CC Tx	Green	Off: contact closure signal from local device is not received Blink: contact closure signal from local device is received
CC Rx	Green	Off: contact closure signal from remote device is not received Blink: contact closure signal from remote device is received
Ethernet	Yellow	Off: RJ45 port is not active Lit: connection is established on RJ45 port Blink: data is being transmitted on RJ45 port
	Green	Slow blink: on 10Mbps network connection Fast blink: 100Mbps network connection

Contact information

Vikings Technology Co. LTD.
www.vikingstechnology.com
support@vikingstechnology.com

