

# 2-Channel Ethernet to Fibre Media Converter

## MCI-422, MM/SM



- ☰ Simple automation connectivity solution
  - Dual channel media converter/switch
  - 2 x 10/100TX, 2 x 100FX ports (single & multimode solution)
  - DIP switch configured as dual channel converter or switch
- ☰ Designed for easy industrial installation
  - DIN rail mount
  - Dual 10 to 60 VDC power supply
  - Fault relay alarm
- ☰ Operation within industrial environments
  - -25 to +75°C (-13 to +167°F) operating temperature
  - IP 30 Aluminium case
  - Supports 1.5 KV Hi-Pot isolation protection
- ☰ Easy configuration and use
  - DIP switch fault contact configuration
  - No user set up required
  - Simple LED indicators



The MCI-422 is a simple and cost effective Ethernet device suitable for use in a wide range of factory and building automation applications. The device can be used as either a switch or a dual channel converter. Two models are available – The SC2 for use on up to 2 km (1.24 mi) of multimode fibre and the SC30 for single-mode applications up to 30 km (18.6 mi).

The unit is designed for DIN rail mounting into industrial cabinets allowing simple Ethernet connections to be established between PLCs, I/O units, drives, inverters and HMIs. The dual power input makes the unit ideal in these types of application and the fault relay can be connected to an I/O unit to provide simple network management.

Designed to work in industrial environments with its IP 30 Aluminium housing and a wide temperature specification the MCI-422 is an ideal automation solution,

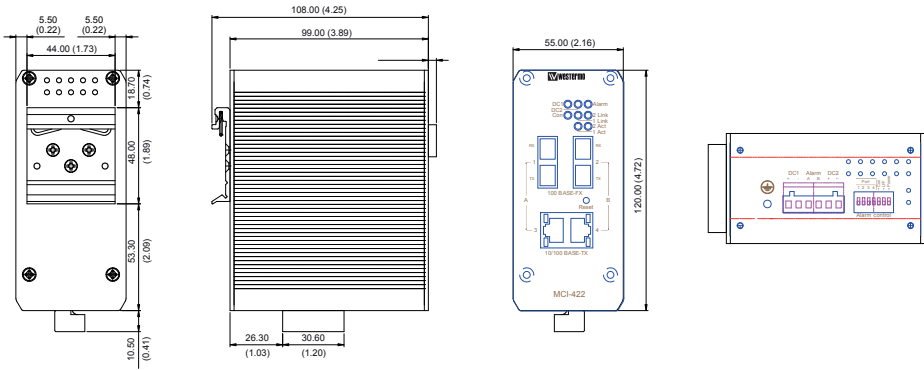
The MCI-422 is easy to use, simply connect power to the screw terminals and plug in your RJ-45 cables. If you plan to use the fault contacts a DIP switch allows configuration whilst LEDs provide simple diagnostics if required.

### Ordering Information

Art.no	Description
3624-0100	Westermo MCI-422-MMSC2, Multi-mode 2 km 2 km distance, 50~62.5/125 µm Multi-mode Fibre cable
3624-0110	Westermo MCI-422-MMSC30, Single-mode 30 km 30 km distance, 8~10/125 µm Single-mode Fibre cable
3125-0001	PS-30, Power supply, DIN mounted (Accessories)

# Specifications MCI-422, MM / SM

## Dimensional drawing



Dimensions (W x H x D) 55 mm x 120 mm x 99 mm  
 Weight 550 g  
 Ingress protection IP 30  
 Mounting DIN-rail mounting

### Environmental conditions

Operating temperature	-25 to +75°C (-13 to +167°F)
Storage & Transport temperature	-40 to +75°C (-40 to +167°F)

### Power

Operating voltage	10-60 VDC
Rated voltage	24 VDC
Power consumption	6 W @ 24 VDC

### Interfaces

Ethernet	2 x RJ-45, 10 Mbit/s or 100 Mbit/s
Fibre	1 x SC Fibre, 100 Mbit/s, 1310 nm
Digital Output	1 x Dry Relay Output with 1A @ 24 VDC ability

### Protocols and Functionality

Ethernet Technology	IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3u 100Base-FX, IEEE 802.3x Flow Control and Back Pressure
Switch Technology	3.2 Gbit/s Store and Forwarding Technology
System forwarding	1.19 Mega packets per second, 64 bytes packet size. (Switch Mode); 14880 pps for 10Base-T, 148810 pps for 100Base-TX/ FX
MAC Address	1K MAC address entries with automatic learning and aging (Switch Mode only)
Packet Buffer	512 kbits shared memory
Forwarding Technology	Store and Forward
Link lose forward	Supports Bi-directional Link Loss Forwarding function (Converter mode only)
Operating Modes	Switch Mode: data exchange on 4 ports (Channel A, B exchange) Converter mode: data forwarding on independent channel (A, B)

### Agency approvals and standards compliance

EMC	EN 61000-6-2, Immunity industrial environments
	EN 61000-6-4, Emission industrial environments
Shock & Vibration	IEC 60068-2-6, IEC 60068-2-27, IEC 60068-2-32