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
- IP30 aluminum 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

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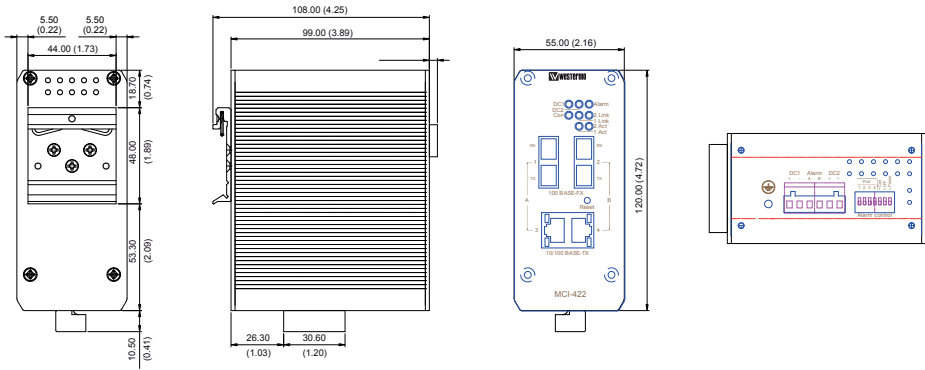
Designed to work in industrial environments with its IP 30 Aluminium housing and a wide temperature specification the MCI-422 is an ideal automation solution,

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 (Acessories)

Specifications MCI-422, MM / SM

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 × RJ-45, 10 Mbit/s or 100 Mbit/s
Fibre	1 × SC Fibre, 100 Mbit/s, 1310 nm
Digital Output	1 × 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
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