

Features

- Eight-channel contact closure module
- Fail-safe
- Adjustment-free installation and operation
- Potential-free (output)
- Stand-alone and rack-mount versions



CCM 1010 (/RS-232)

Eight-channel contact closure extension module

Description

The CCM 1010 series transports eight contact closure contacts unidirectionally over one multimode optical fiber.

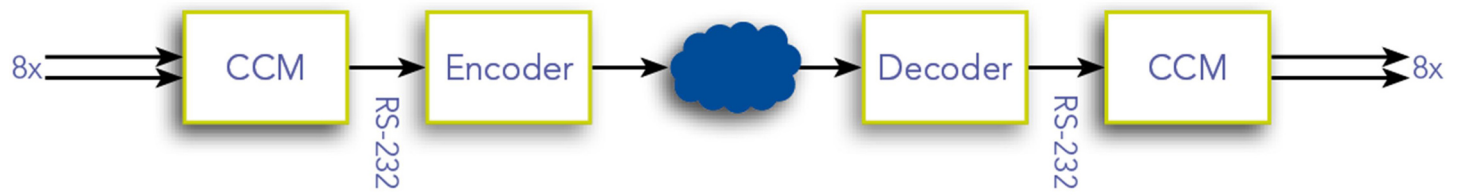
The CCM is monitored by status LEDs indicating the link condition and its internal synchronisation. The contact closures are designed to be fail-safe; they will fall back to "open" in case of data failure, connection loss or power loss.

The CCM 1010/RS-232 contact closure multiplexer system can transmit eight independent contact closure signals unidirectionally over one RS-232 data link.

Rack-mount CCM 1010 units are designed to be slotted into MC 10 or MC 11 power supply cabinets. Stand-alone CCM 1010 units are to be powered with a PSA-UN12DC.

Technical Specifications

CCM 1010 (/RS-232)



Contact Closures

Number of channels	8 (simplex)
Input	5 V 10 k Ω pull-up input
Threshold	0.75 V (<1.5 k Ω)
Output	Fail-safe, potential-free
Switch rating	2 A at 30 Vdc
Connector type	D37

RS-232 interface

Data format	RS-232
Data frequency	1 start, 1 stop, no parity
Data rate	2.4 kb/s
Connector type	D37

Management

LED status indicators	
DC	Power-on indicator (green)
Sync	RX only: link synchronised (green), link down (red)
FR	TX only: correct transmission framing (green), internal failure (red)

Environmental

Operating temperature	-40 °C to +74 °C (-40 °F to +165 °F)
Storage temperature	-55 °C to +85 °C (-67 °F to +185 °F)
Relative humidity	<95% with no condensation
MTBF (mean time between failures)	>100,000 hours
Safety and EMC	IEC/EN 60950-1, IEC/EN 60825, IEC/EN 61000, EN 50130-4, EN 50081-1, EN 55022, FCC part 15, UL

Power

Power consumption	1.2 W
Rack-mount units	MC 10 and MC 11 power supply cabinets
Stand-alone units (/SA)	11 to 15 Vdc (PSA-UN12DC or PSR-12DC)

Mechanical

Dimensions (h x w x d)	128 x 35 x 190 mm (5 x 1.4 x 7.5 in)
Weight	450 g (15.9 oz)
Housing	Rack-mount or stand-alone

Technical Specifications

CCM 1010 (/RS-232)

Optical

CCM 1010 TX/RX

Fiber type	1x MM (62.5 μm)
Output wavelength	850 nm
System link budget	25 dBm
Link length	8 km*
Minimum link loss	0 dBm
Output power	>-20 dBm
Input sensitivity	-45 dBm
Connector type	ST

*Range may be limited by fiber bandwidth

Ordering Information

Models	Description	Fiber type
CCM 1010 TX	8-channel contact closure transmitter	1x MM
CCM 1010 RX	8-channel contact closure receiver	1x MM
CCM 1010 TX/RS232	8-channel contact closure transmitter	N/A
CCM 1010 RX/RS232	8-channel contact closure receiver	N/A
CCM 1010/SA	Stand-alone version of rack-mount models	



The quality management system utilized in the development, production, sales, and support of this product is ISO 9001:2008 certified by LRQA.

© Siquira B.V. 2013 - Version 1.2 - Subject to modification..

