![WEST Temperature Control Solutions logo]

MLC 9000+ CANopen Bus Communications Module

The CANopen Bus Communications Module (BCM) is part of the MLC 9000+ DIN-Rail mounting PID control system. The BCM handles communication between up to 8 single or multi loop controller modules and the CANopen network. Systems larger than 32 loops can be built using multiple BCMs, within the limitations of your CANopen system.

- **CANopen port**
- **Supports up-to 1024kbps**
- **DIN Rail Mounting**

- **Software Configurable**
- **Configuration port**
- **Configurable Data Assemblies**

Technical Data

CANopen Port

Protocol	CANopen (Slave Device)
Function	Connection of the MLC 9000+ system to a CANopen Master Device
Configuration	Data Rate 125kbps, 250kbps, 500kbps or 1024kbps. Node ID 1 – 127 (Defaults 125kbps, Node ID 1). Configured using the MLC 9000+ Configurator software, via the configuration port
I/O Size	Dependant on Data Assembly Configuration. Maximum 256 bytes (total) of input/output data limited by CANopen
Messaging Supported	Cyclic and Acyclic Messaging
EDS File	The EDS file is defined by the MLC 9000+ Configuration software
Connector	5-way 5.08mm combicon type
Diagnostics	Two Colour LED, indicating On/Off-line, Self Test, Bus Fault and Communication Status

Configuration Port

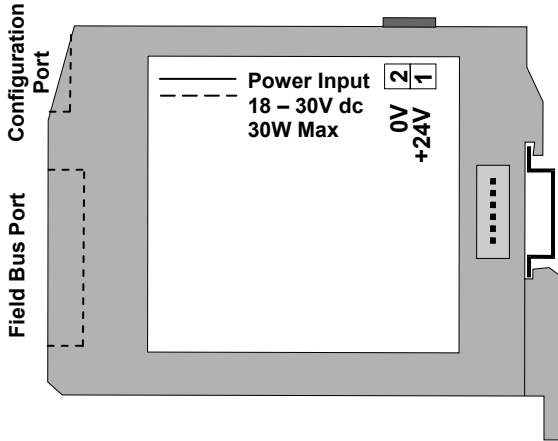|	
Protocol	West PC Configuration protocol only
Function	Communicates with West MLC 9000+ Configuration Software
Diagnostics	Three colour LED, indicating Power Fail, Bus Alarm & Communications Status
Connector	6-way RJ11 Type

Physical

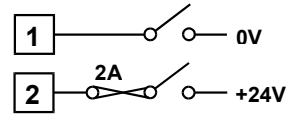|	
Dimensions	Height: 100mm, Width: 30mm, Depth: 120mm
Mounting	Directly fitted onto 35mm Top-Hat DIN mounting rail (EN50022, DIN46277-3)
Weight	0.21kg

Operating & Environmental

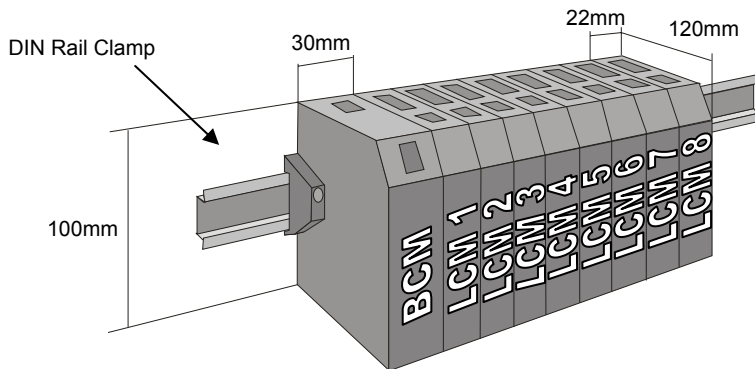|	
Temperature & RH	0 to 55°C (-20 to 80°C storage), 30% to 90%RH non-condensing
Power Supply	18 to 30Vdc (inc ripple), 30W Max
Power Connector	2-way 5.08mm Combicon type
Protection	IEC IP20. Designed for installation in an enclosure which is sealed against dust and moisture
Approvals and Certification	EMC: Certified to EN61326. Safety: Complies with EN61010 and UL 3121-1, awaiting approval from CiA

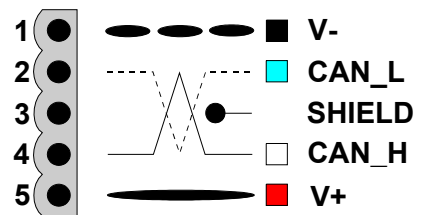![WEST Temperature Control Solutions]

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Connection Details

Configuration Port

Field Bus Port

Power Input
18 – 30V dc
30W Max

2 1

0V
+24V

Power Connections

1 —— 0V

2A
2 —— +24V

System Dimensions

DIN Rail Clamp

30mm

22mm   120mm

100mm

BCM LCM 1 LCM 2 LCM 3 LCM 4 LCM 5 LCM 6 LCM 7 LCM 8

Fieldbus Connections

1 ▬ ▬ ▬ ■ V-
2 ----- ▫ CAN_L
3 ● SHIELD
4 □ CAN_H
5 ▬▬▬ ■ V+

Data Assemblies

Using the MLC 9000+ configuration software the user can define the data assemblies for communication via implicit messaging. This allows the user to fully customise the communication interface to the MLC 9000+ system. The user drags and drops the required parameters into the data assemblies an EDS file is then created for use with your CANopen master device.

Order Code

MLC 9000-BM230-CO	BCM with DeviceNet & Configuration Ports

In accordance with our policy of continuous improvement, we reserve the right to change specifications from those shown in this document.

MLC 9000+ CANopen Spec Sheet – 01/04

DANAHER INDUSTRIAL CONTROLS   HENGSTLER   Veeder-Root

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