MXBMN multiplexer base unit

Overview

The base unit (or brain) connects to the fiber optic cable and provides visual indication of fiber link status. Information is received from up to four input modules that can be cascaded. Each module has a partner module installed on the corresponding base unit. An integrated backplane allows for communications between modules with no external inter-modular connection.

Key features

- Multi-Node MX Multiplexer Base Unit supports up-to 16 I/O device ports
- I/O Modules are available in 2 and 4 channel versions
- Maximum number of I/O modules per optical base unit – 4
- Maximum number of I/O devices per optical base unit – 16
- Maximum number of Input devices per system – 1024
- Maximum number of Output devices per system – unlimited
- Maximum number of locations in Daisy Chain or SHR topology – 256
- SFP Transceivers with LC connectors and patch cords available
- No programming required

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Technical specification

Feature	Description
Input power requirement	+15-30Vdc Input
Alarm output relay	Form-C (SPST), 1A @ 30Vdc
Update rate	115.2kHz (8.68µs)
Connector type	LC
Compatible fiber type	Single-mode
Maximum transmission distance	80km
Regulatory Certifications	CE, Class I, Division 2, Groups A, B, C & D for the US and Canada, ATEX, Zone-2, Category 3
Operating Temperature	-40 to 85°C, 0-95% humidity (non-condensing)
Mounting	35mm DIN Rail
Weight	<9oz. (250g)
Accessories	• SFP transceivers: SFP13-100M2K. SFP13-100M15K, SFP13-100M40K, SFP13-100M80K • Contact closure I/O modules: MXCC-IP2, MXCC-IP4, MXCC-OP2, MXCC-OP4 • 4-20mA I/O modules: MX420-IP2, MX420-IP4, MX420-OP2, MX420-OP4 • 0-10Vdc I/O modules: MX010-IP2, MX010-IP4, MX010-IP2, MX010-IP4 • RS232/485: MXRS-2, MXRS-4
Installations instructions	Shipped with product or available on request

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FAQs

Can this product be powered using a 24Vdc power supply?

Yes. This unit requires 24Vdc power, and is wired directly to the base unit terminals.

Does this product require software to configure?

No. These modules can be configured via dip switches.

About Ultra Energy

Organizations working with nuclear and industrial technologies must deliver reliable production at the same time as safeguarding people, the environment and infrastructure. We develop and manufacture measurement and control solutions that give our customers complete, long-term control over systems operating in harsh environments, helping them operate safely and increasing the value derived from their investments over their total lifespan.

Part of Curtiss-Wright, Ultra Energy has worked with nuclear and industrial customers for over 60 years. We support customers across the world from facilities located in the US and UK. Our solutions are embedded in strategic national infrastructure and our people are active partners in customer programs that are focused on delivering advanced future nuclear and industrial capabilities.

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