Ethernet Network I/O Module 1

MN-NETRLY4

Overview 2

The EDWARDS MN-NETLRY4 Network Relay provides four unsupervised input zones and four normally-open relays to and from FireWorks V1.6 or greater over an Ethernet (TCP/IP) network. This module is particularly well-suited for mass notification, life safety applications, and other monitoring or output applications. It is also ideal for interfacing to third-party systems. 3

The MN-NETRLY4's four input zones may be configured as Alarm, Supervisory, Trouble, or Monitor inputs directly into FireWorks. These can initiate display events and trigger FireWorks logic. The wiring for these zones is limited to 20 ft (6.1 m), and must be mechanically protected in accordance with applicable codes. 4

The four normally-open relays are controlled directly from FireWorks. These can be programmed to respond to automatic or manual FireWorks commands. 5

Data communication to and from the MN-NETLRY4 is constantly supervised from FireWorks. A fixed IP address is required. 6

The MN-NETRLY4 snaps easily onto the included DIN rail (MN-NRBK1) mounting bracket that can be mounted in an 2-WB, EST3 (on MN-BRKT1), MFC-A, APS(6)(10)A (on MN-BRKT3), or BPS(6)(10)A enclosure. An optional MN-NRMP is also available that will allow two MN-NETLRY4s to be mounted on an MN-BRKT1 in place of an MN-FVPN. 7

Standard Features 8

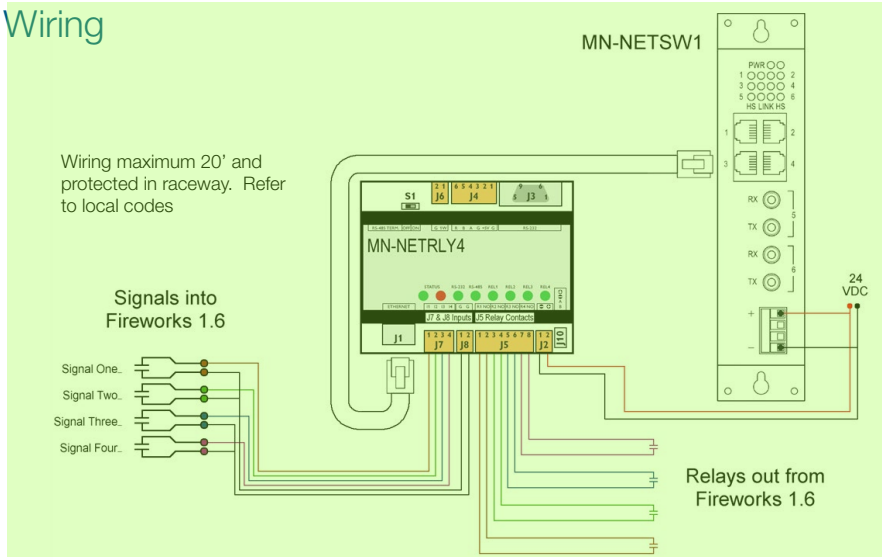
- Flexible mounting options 9
- Powered by 24 Vdc from control panel or listed power supply
- Easy to configure
- Removable terminal strips
- Optional MN-TK10 Terminal Block Kit

Application 10

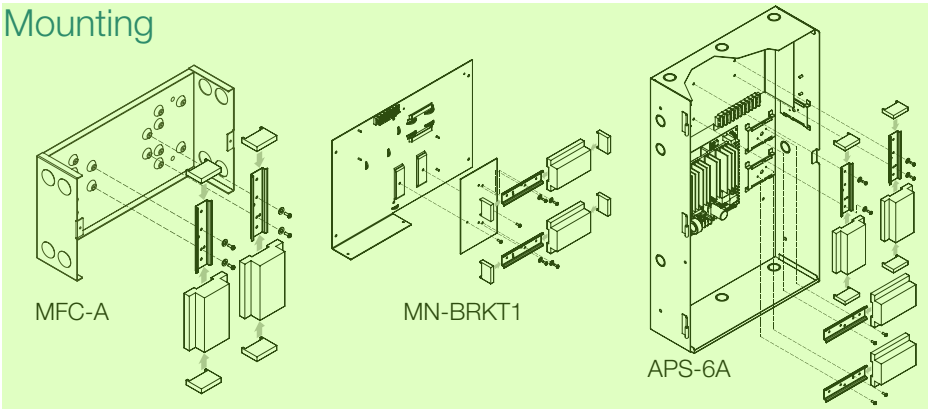
The MN-NETLRY4 can be used to connect to a third-party system to bring common Alarm, Supervisory and Trouble signals directly to FireWorks. The MN-NETRLY4 is also ideal for providing commands and receiving confirmation signals to and from third-party systems, or any application where a high concentration of inputs and outputs are required. 11

When interfacing the MN-NETRLY4 to an initiating device circuit from a third-party control panel, an MN-TK10 Terminal Block Kit is required. 12

Wiring



Mounting



Specifications

Voltage	18 to 28 VDC
Current	95 mA standby, 152.5 mA with all relays active
Contacts	Form A, programmable, 24 VDC @ 0.5 A resistive
Housing	Polymer
Listings	UL864, UL2572, CSFM, See note 1

Network Interface

Connector	RJ-45
Cable Type	Cat5 or better
Data	10/100 Mbps, TCP/IP, auto negotiating

Operating environment

Temperature	32 to 120 °F (0 to 49 °C)
Humidity	0 to 93% RH, noncondensing at 90 °F (32 °C)

Ordering Information

MN-NETRLY4	Ethernet controllable multi I/O unit, 4 input 4 relay outputs
MN-NETSW1	UL Listed Multimode Ethernet switch
MN-NRBK1	Replacement mounting bracket with end-caps for single MN-NETRLY4 (one comes with each MN-NETRLY4)
MN-NRMP	Mounting plate to allow up to 2 MN-NETRLY4 modules to be mounted on an MN-BRKT1
MN-TK10	10 position terminal kit

Note 1: The MN-NETRLY4 is listed for connection to a dedicated Ethernet network made up FireWorks computers, MN-COM1S units that are connected to UL Listed MN-NETSW1 switches