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Ethernet/IP-DeviceNet Router

- Allows a safety system to be monitored via Ethernet
- The safety system can be remotely programmed and monitored using a personal computer
- The safety system can also be monitored by an Ethernet-compatible PLC
- UDP packet messages are supported



Specifications

Certified Standards

Certification body	Standard
UL	UL508, UL1604, CSA22.2 No.142, CSA22.2 No.213

Specifications

DeviceNet communications power supply voltage		11 to 25 VDC (supplied via DeviceNet communications connector)
Internal circuit power supply voltage		20.4 to 26.4 VDC (24 VDC -15%/+10%)
Current consumption	DeviceNet communications power supply	24 VDC, 15 mA
	Internal circuit power supply	24 VDC, 230 mA
Overvoltage category		II
Noise immunity		Conforms to IEC 61131-2.
Vibration resistance		10 to 57 Hz: 0.35 mm, 57 to 150 Hz: 50 m/s ²
Shock resistance		150 m/s ² : 11 ms
Mounting method		35-mm DIN Track (IEC 60715 TH35-7.5/TH35-15)
Ambient operating temperature		-10 to 55°C
Ambient operating humidity		10 to 95% (with no condensation)
Ambient storage temperature		-40 to 70°C
Degree of protection		IP20
Weight		220 g max.

Specifications (continued)

DeviceNet Communications Specifications

Communications protocol	DeviceNet compliant			
Connection form	Multi-drop system and T-branch system can be combined (for trunk line and branch lines)			
Communications speed	500/250/125 kbps			
Communications media	Special cable, 5 conductors (2 for communications, 2 for power supply, 1 for shielding)			
Communications distance	Comm-unications speed	Max. network length	Branch length	Total branch length
	500 kbps	100 m max. (100 m max.)	6 m max.	39 m max.
	250 kbps	250 m max. (100 m max.)	6 m max.	78 m max.
	125 kbps	500 m max. (100 m max.)	6 m max.	156 m max.
Note: Figures in parentheses () indicate values when a thin cable is used.				
Communications power supply	11 to 25 VDC			
No. of connectable nodes	64 (including Master)			

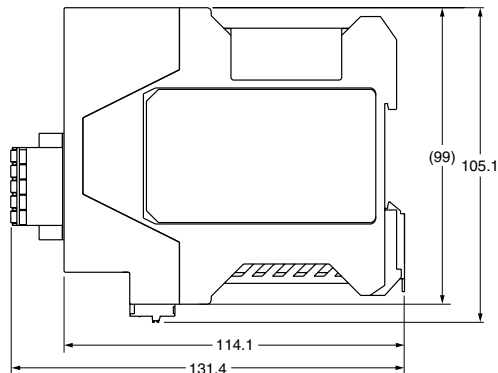
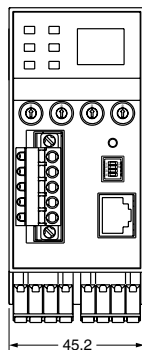
Ethernet/IP Communications Specifications

Media access method	CSMA/CD
Modulation method	Baseband
Transmission path type	Star
Transmission speed	10 Mbps (10BASE-T) 100 Mbps (100BASE-TX)
Transmission media	Shielded twisted pair cable (STP) : Category 5, 5e
Transmission distance	100 m (distance between hub and node)
No. of cascade-connectable Units	No limit when a switching hub is used.

Dimensions

(mm)

NE1A-EDR01



K

Ordering

Name	Model	Unit version
Ethernet/IP-DeviceNet Router	NE1A-EDR01	1.0



For information on accessories,
see page K-49.

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