EL900 Series

Hardened 10/100BASE-TX to 100BASE-FX Media Converter



Features

- Complies with NEMA TS1 & TS2 Environmental requirements for Traffic control equipment
- Complies with IEC61000-6-2 EMC Generic standard immunity for Industrial environment
- ISA 12.12.01 (UL1604) Class I, Division 2 Classified for use in hazardous locations (Applicable to versions with Terminal Block power option)
- DIP switch configuration for "Link-Fault-Pass-Through," link down alarm, speed, duplex mode

Value



Highly gualified for explosive environmental 10/100BASE Ethernet applications and certified by UL with ISA12.12.01 Class I, Division 2 Classified for use in hazardous locations specifications

- 768K bits buffer memory
- 10/100Mbps-Full/Half-duplex, Auto-Negotiation, Auto-MDI/MDIX
- Full wire-speed forwarding rate
- Alarms for power and port link failure by relay output
- -40°C to +75°C (-40°F to 167°F) operating temperature range
- Hardened aluminum case
- Supports DIN-Rail, Panel or Rack Mounting installation

Ordering Information

EL900-X-Y-I-P

Hardened 10/100BASE-TX to 100BASE-FX Media Converter

10/100TX Options :

(X) = A : 10/100BASE-TX (for Port 1 only)

100FX Fiber Options :

- (Y) = B : Multi Mode (SC)
 - C : Multi Mode (ST)
 - D : Multi Mode (SC) WDM -TX:1310nm/RX:1550nm 2Km
 - E : Multi Mode (SC) WDM -TX:1550nm/RX:1310nm 2Km
 - F: Multi Mode (SC) WDM -TX:1310nm/RX:1550nm 5Km G : Multi Mode (SC) WDM -TX:1550nm/RX:1310nm - 5Km
- *More 100FX Fiber options also available upon request

Installation Type :

- (|) = 1 : DIN-Rail (mounting kit is included)
 - Optional Panel mount kit, part number: KP-AA96-480

Power Connector Options :

(P) = A : Terminal Block* / B : DC Jack**

- Q : Single Mode (SC) WDM -TX:1310nm/RX:1550nm 20Km
- R : Single Mode (SC) WDM -TX:1550nm/RX:1310nm 20Km Single Mode (SC) WDM -TX:1310nm/RX:1550nm - 40Km S :
- T : Single Mode (SC) WDM -TX:1550nm/RX:1310nm 40Km
- M : Single Mode (ST) 20Km
- N : Single Mode (SC) 20Km
- O: Single Mode (SC) 40Km



- *Option A The Terminal Block type external power supply are not included. Please order the following part numbers: DR-30-24, DR-60-24, DR-75-24, DR-120-24 or 41-136046-X (X)=1: US, 2: EU, 3: UK, 4: AU, 5: JP
- **Option B The external power adapter and power cord are not included. Please order the following part numbers: 41-136044-X (X)=1: US, 2: EU, 3: UK, 4: AU, 5: JP

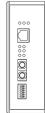
Industrial Converters

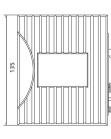
Specifications

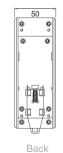
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Technology	
Standards	IEEE802.3 10Base-T,
	IEEE802.3u 100Base-TX/100Base-FX, IEEE802.3x
Forward and	14,880pps for 10Mbps
Filtering Rate	148,810pps for 100Mbps
Packet Buffer	768K bits
Memory	
Processing	Store-and-Forward
Туре	Half-duplex back-pressure and IEEE802.3x full-duplex
flow control	
Power	£
Input	Input Voltage: 10 to 48VDC (Terminal Block);
	12VDC (DC Jack)
Power	4.32W MAX. 0.36A @ 12VDC, 0.09A @ 48VDC
Consumption	
Overload	Present
Current	
Protection	
Reverse	Present
Polarity	
Protection	
Mechanical	
Casing	Aluminum case
	IP30
Dimensions	50mm (W) x 110mm (D) x 135mm (H)
	(1.97" (W) x 4.33" (D) x 5.31" (H))
Weight	0.8Kg (1.76lbs.)
Installation	DIN-Rail (Top hat type 35mm), Panel, Rack Mounting
Interface	
Ethernet Port	10/100BASE-TX: 1 port
	100BASE-FX: 1 port
LED Indicators	Per Unit: Power Status (Power 1, Power 2, Fault),
	Link-Fault-Pass-Through
	Per Port: 10/100TX: Link/Activity, Full-duplex/Collision,
	Speed
	100FX: Link/Activity, Full-duplex/Collision
Relay Contact	Relay contact rating with current 1A @ 30VDC,
	0.5A @ 120VAC
Environment	
Operating	-40°C to +75°C (-40°F to 167°F)
Temperature	Tested @ -40°C to +85°C (-40°F to 185°F)
Storage	-40°C to +85°C (-40°F to 185°F)
Temperature	
Ambient	5% to 95% (non-condensing)
Relative	
Humidity	

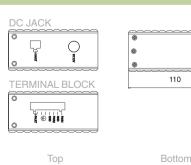
ISO	Manufactured in an ISO9001 facility
Safety	Hazardous locations: Class 1, Division 2 group A,B,C&D UL60950-1, EN60950-1, IEC60950-1
EMI	*FCC Part 15, Class A *EN61000-6-3 - EN55022 - EN61000-3-2 - EN61000-3-3
EMS	 *EN61000-6-2 EN61000-4-2 (ESD Standards) Contact: + / - 4KV; Criteria B Air: + / - 8KV; Criteria B EN61000-4-3 (Radiated RFI Standards) 10V/m, 80 to 1000MHz; 80% AM Criteria A EN61000-4-4 (Burst Standards) Signal Ports: + / - 4KV; Criteria B D.C. Power Ports: + / - 4KV; Criteria B EN61000-4-5 (Surge Standards) Signal Ports: + / - 1KV; Line-to-Line; Criteria B D.C. Power Ports: + / - 0.5KV; Line-to-earth; Criteria B EN61000-4-6 (Induced RFI Standards) Signal Ports: 10Vrms @ 0.15 - 80MHz; 80% AM Criteria A D.C. Power Ports: 10Vrms @ 0.15 - 80MHz; 80% AM Criteria A EN61000-4-8 (Magnetic Field Standards) 30A/m @ 50, 60Hz; Criteria A
Environmental Test Compliance	*IEC60068-2-6 Fc (Vibration Resistance) 5g @ 10 - 150Hz, Amplitude 0.35mm (Operation/Storage/Transport) *IEC60068-2-27 Ea (Shock) 25g @ 11ms (Half-Sine Shock Pulse; Operation) 50g @ 11ms (Half-Sine Shock Pulse; Storage/Transport) *IEC60068-2-32 Ed (Free Fall) 1M (3.281ft.) NEMA TS1/2 Environmental requirements for traffic control equipment

Dimensions









Bottom

Front

Side