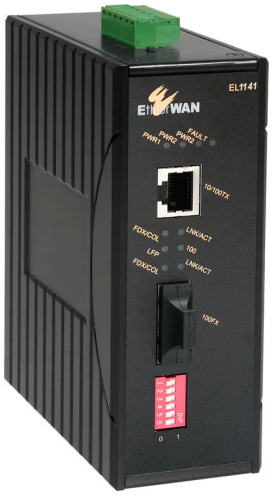
EL1141 系列

IEC 61850/IEEE 1613 強固級10/100BASE-TX- 100BASE-FX 光電轉換器



產品介紹

EL1141光電轉換器具備1組獨立10/100BASE-T網路埠和1個100BASE-SX-LX光纖埠，支援雙電源輸入、斷線告警、Link-Fault-Pass-Through等功能，符合IEC 61850-3/IEEE 1613相容認證，抗電磁干擾設計，適用於變電站、電力整合等應用市場。

EL1141光電轉換器採工業等級設計，可承受強力的落摔衝擊、防震動及抗電磁波干擾，更可在-40到75°C寬溫環境下穩定運作，於嚴峻的專案規劃佈局中扮演致勝的關鍵角色。

EtherWAN — "When Connectivity is Crucial."

產品亮點

符合IEC 61850-3/IEEE 1613認證

符合變電站自動化所需之應用標準

強固等級設計

寬溫操作(-40到75°C)

符合EN 50121-4認證

專為軌道環境應用設計及測試

支援Link-Fault-Pass-Through (LFPT)

針對光電轉換器連線狀態提供持續的監控

當連線的其中一端光纖中斷訊，LFPT會中斷乙太網路(RJ-45)埠之連線，以告知連線之設備網路連線已中斷

產品規格

Technology

Standards

IEEE 802.3 10BASE-T

IEEE 802.3u 100BASE-TX and 100BASE-FX

IEEE 802.3x Full duplex and flow control

Forward and Filtering Rate

14,880pps for 10Mbps

148,810pps for 100Mbps

Packet Buffer Memory

128K bits

Processing Type

Store-and-forward

Auto Negotiation

Half-Duplex back-pressure and IEEE 802.3x Full-Duplex flow control

Auto MDI/MDIX

Interface

Ethernet Ports

10/100BASE-TX: 1 ports

100BASE-FX: 1 ports

LED Indicators

Per Unit: Power 1, Power 2, Fault, Link-Fault-Pass-Through

Per port 10/100TX: Link/Activity, Full-duplex/Collision, Speed

Per port 100FX: Link/Activity, Full-duplex/Collision

Relay Contact

Relay contact rating with current 1A @ 30VDC, 0.5A @ 120VAC

Environment

Operating Temperature

-40 to 75°C (-40 to 167°F)

Storage Temperature

-40 to 85°C (-40 to 185°F)

Ambient Relative Humidity

5% to 95% (non-condensing)

Power

Input

12 to 48VDC (Terminal Block)

12VDC (DC Jack)

Power Consumption

12 to 48VDC, 0.24 to 0.06A

2.88W Max.

Protection

Overload Current Protection

Reverse 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) or panel mounting

Regulatory Approvals

ISO

Manufactured in an ISO 9001 facility

Safety

UL508

UL62368-1

EMI

FCC Part 15B Class A

EN 55022

EN 61000-6-4

EN 55022

EN 61000-3-2

EN 61000-3-3

EMS

EN 61000-6-2

• EN 61000-4-2 (ESD Standards)

• EN 61000-4-3 (Radiated FRI Standards)

• EN 61000-4-4 (Burst Standards)

• EN 61000-4-5 (Surge Standards)

• EN 61000-4-6 (Induced RFI Standards)

• EN 61000-4-8 (Magnetic Field Standards)

Environmental Test Compliances

IEC 60068-2-6 Fc (Vibration)

IEC 60068-2-27 Ea (Shock)

FED STD 101C Method 5007.1 (Free fall w/ package)

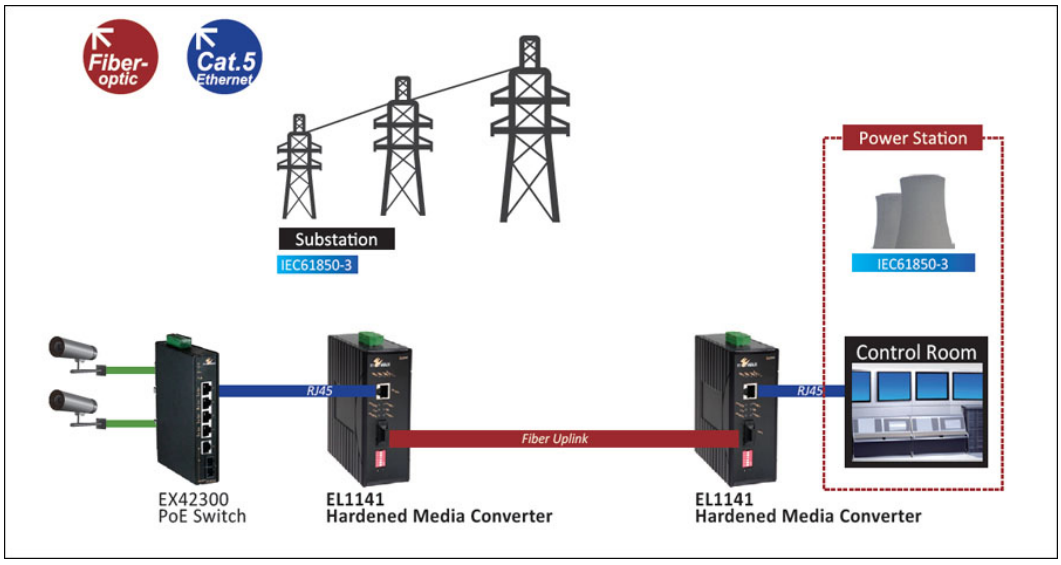
Industrial Compliance

IEC61850-3 / IEEE1613

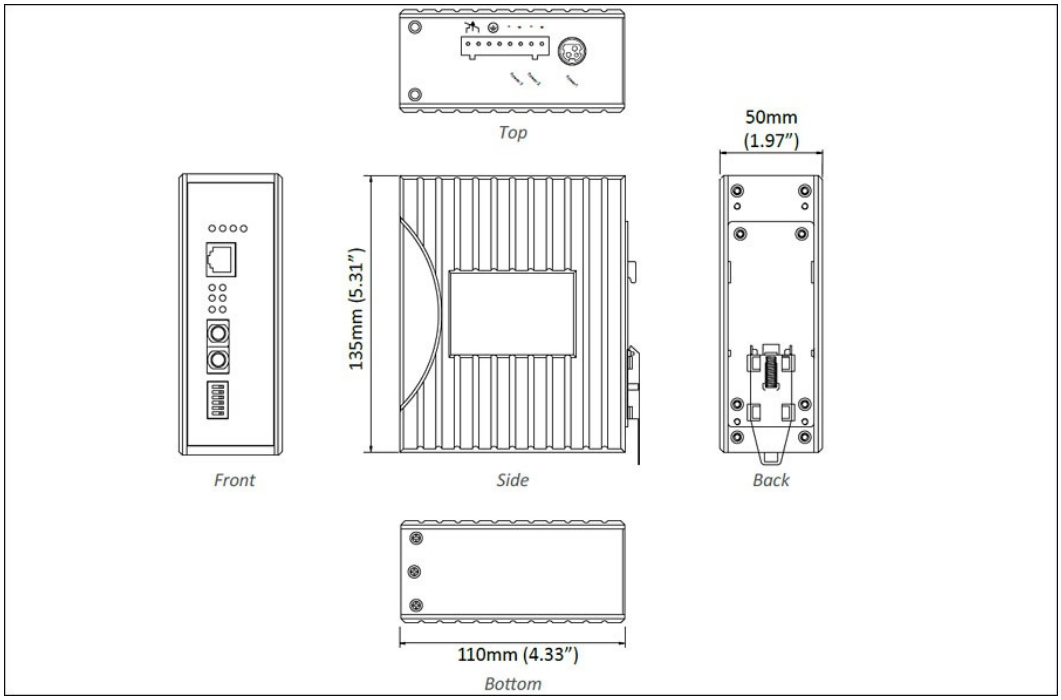
EN50121-4

NEMA TS2

產品應用圖


Fiber-optic
Cat.5 Ethernet
Substation
IEC61850-3
Power Station
IEC61850-3
Control Room
RJ45
Fiber Uplink
RJ45
EX42300
PoE Switch
EL1141
Hardened Media Converter
EL1141
Hardened Media Converter

產品尺寸圖


Top
50mm
(1.97")
135mm (5.31")
Front
Side
Back
110mm (4.33")
Bottom

訂購型號

型號

EL1141-X0B	10/100BASE-TX to 100BASE-FX Hardened Media Converter

* DIN-Rail mounting kit included.

100FX Fiber Options (X)

1	Multi Mode (SC) - 2Km (1310nm)
2	Multi Mode (ST) - 2Km (1310nm)
A	Single Mode (SC) - 20Km (1310nm)
B	Single Mode (SC) - 40Km (1310nm)
H	Single Mode (ST) - 20Km (1310nm)
6	Multi Mode (SC) WDM-TX: 1310nm/RX: 1550nm-2Km
7	Multi Mode (SC) WDM-TX: 1550nm/RX: 1310nm-2Km
8	Multi Mode (SC) WDM-TX: 1310nm/RX: 1550nm-5Km
9	Multi Mode (SC) WDM-TX: 1550nm/RX: 1310nm-5Km
P	Single Mode (SC) WDM-TX: 1310nm/RX: 1550nm-20Km
Q	Single Mode (SC) WDM-TX: 1550nm/RX: 1310nm-20Km
R	Single Mode (SC) WDM-TX: 1310nm/RX: 1550nm-40Km
S	Single Mode (SC) WDM-TX: 1550nm/RX: 1310nm-40Km

* More 100FX Fiber options also available upon request.

Optional Accessories

KP-AA96-480	Panel mounting kit
HDR-30-24	30W/1.5A DIN-Rail 24VDC Industrial Power Supply
HDR-60-24	60W/2.5A DIN-Rail 24VDC Industrial Power Supply
EDR-75-24	75W/3.2A DIN-Rail 24VDC Industrial Power Supply
EX41-145046-X	Power Supply 45W 12VDC with Open Wire (X) = 1: US, 2: EU, 3: UK, 4: AU, 5: JP, 6: SA

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