EIPE-2

CTRLink®

Skorpion PoE Splitter for deriving power from PoE

Installation Guide

The EIPE PoE Splitter in the Skorpion family offers a simple method of delivering 24 VDC to a non-PoE 10/100 Mbps Ethernet device by converting the 48 VDC provided by a PoE device. The EIPE is compliant to the IEEE 802.3af standard. There are two RJ-45 connectors on the unit. The top connector, labelled PoE, attaches to the PoE device (PSE) while the bottom connector, labelled Ethernet, attaches to the non-PoE device. Transmit and receive signals are freely passed between the two connectors as if the splitter were not present. The 48 VDC power is extracted from either the used (Pins 1-2, 3-6) or unused (Pins 4-5, 7-8) wiring pairs on the top RJ-45 connector for use by the non-PoE end device. The splitter does not interfere with any communication between the non-PoE device and the PoE source.

The splitter is powered from a 48 VDC PoE or PSE device. The internal isolated power supply provides the required 24 VDC output power to the output connector.

CONTEMPORARY CONTROLS®

Specifications

Electrical

DC	Input	Output
Voltage (±10%):	48 V	24 V
Power:	12.95 W (min)	10 W (max)

*after 100m of CAT5 cable

Environmental

Operating Temperature:	0°C to +60°C
Storage Temperature:	– 40°C to +85°C
Humidity, non-cond.:	10% to 95%
Protection:	IP 30

Mounting

TS-35 DIN-rail

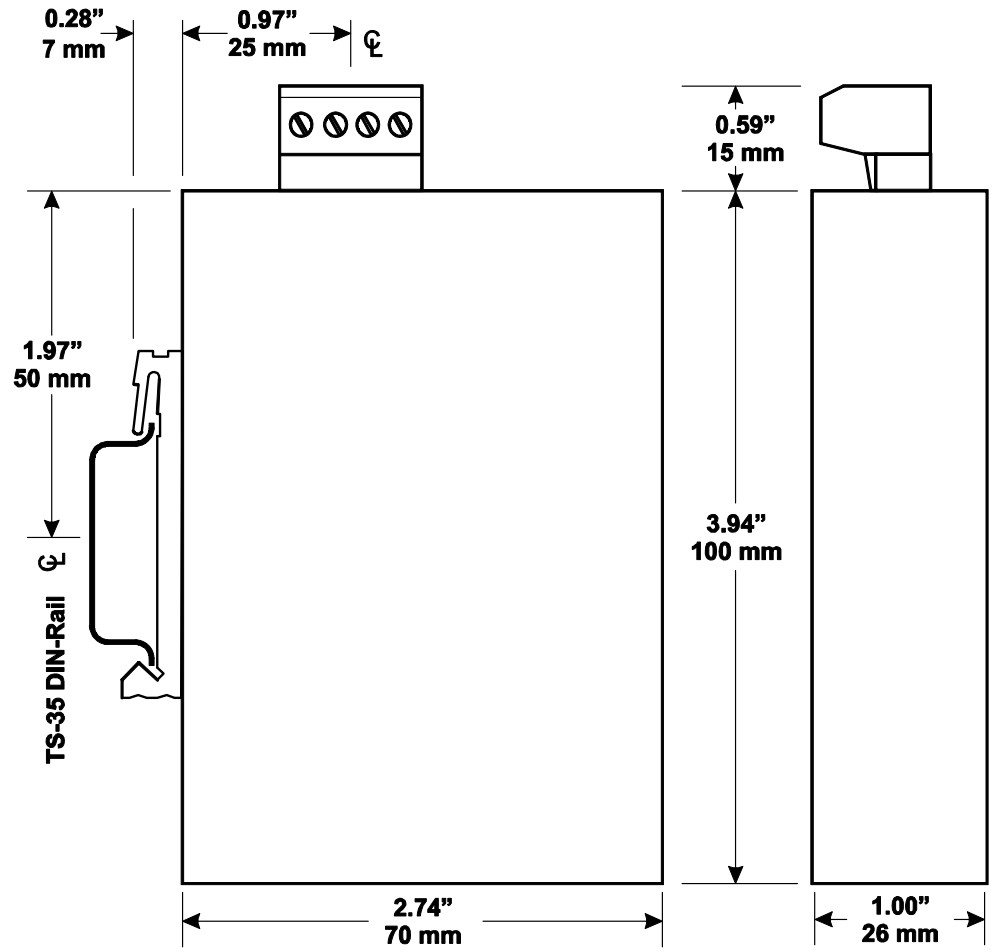
Shipping Weight

1 lb (0.45 kg)

Regulatory Compliance

CE Mark; CFR 47 Part 15, Class A

Mechanical



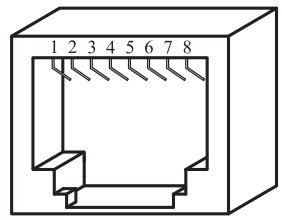
Functional

Compliance:	ANSI/IEEE 802.3af
Data Rates:	10 and 100 Mbps
Signalling:	10BASE-T and 100BASE-TX
Connectors:	Shielded RJ-45
Segment length:	100 m (maximum)

LED Indicators

48V IN	green
24V OUT	green

RJ-45 Pin Assignments



Pin	Function
1	TD+, +48 VDC
2	TD–, +48 VDC
3	RD+, 48 VDC Return
4	+48 VDC
5	+48 VDC
6	RD–, 48 VDC Return
7	48 VDC Return
8	48 VDC Return

PoE power is provided by the PSE on either the used wiring pairs pins 1,2,3,and 6 or the unused wiring pairs 4,5,7 and 8. Only one set of wiring pairs will be used depending on the PSE device.

This device is intended for use with Class 2 circuits.

Power Considerations

PoE input voltage in the range of 44 to 57 VDC must deliver current commensurate with 12.95 W power consumption after 100m of CAT5 Ethernet cable. The 24 VDC output power is 10 W maximum. The recommended size for solid output power conductors is 16–20 AWG; for stranded conductors, use 16–18 AWG. Zero volts (COM) is isolated from chassis (earth).

Network Connections

Either straight-through or crossover cables can be used to connect to a non-PoE Ethernet device that supports Auto-MDI/X or to a PoE PSE device. However, verify that the polarity of the CAT5 cable follows the EIA-568A or EIA-568B wiring specifications.

LED Indicators

When the splitter is properly powered, the ***48V IN*** LED glows solid green to indicate that 48 VDC is applied. The ***24V OUT*** LED glows solid green to indicate that output voltage is available to power the attached non-PoE device.

Need More Help Installing this Product?

More information can be found in the Technical Support part of our web site at www.ccontrols.com. If contacting our office, ask for Technical Support.

Warranty

Contemporary Controls (CC) warrants this product to the original purchaser for two years from the shipping date. If it fails to operate in compliance with its specification during this period, CC will, at its option, repair or replace the product at no charge. Product returned to CC for repair is warranted for one year from the date that the repaired product is shipped back to the purchaser or for the remainder of the original warranty period, whichever is longer. The customer is responsible for shipping product; CC assumes no responsibility for product until received. This limited warranty covers products only as delivered. User modification may void the warranty. Damage from abuse, accident, disaster, misuse, or incorrect installation are not covered. This warranty in no way warrants suitability of the product for any specific application. More warranty information can be found at www.ccontrols.com.

Warning: This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Returning Products for Repair

Return the product to the location where it was purchased by following the instructions at the URL below:

www.ccontrols.com/rma.htm

Declaration of Conformity

Additional compliance documentation can be found on our website.