



### Features

- 3KV **optical isolation** barrier
- Full duplex operation to 1Mbps
- >1200 metres transmission capability
- Wide supply range **single** DC power
- Efficient **switch-mode** regulation
- Line-side **gas-tube lightning protection**
- Compact vertical DIN rail mounting
- Pluggable **Combicon** terminal connections
- LED indicators



### Overview

RS422 lines can typically run hundreds of metres or more. One side effect of such long line lengths can be harmful transients and ground-loop currents which can introduce errors or disrupt communications or even damage the host.

The CE0019E electrically isolates the RS422 bus from the remote RS422 bus through an optical isolation barrier rated at over 3,000 volts. Not only does this prevent harmful voltages being coupled through to the each side but it also isolates grounds from side which otherwise could affect the inherent common-mode voltage rejection, a problem on many balanced networks.

This makes the CE-0019E the perfect candidate for RS422 networks which require isolation and repeater functions to improve the range and reliability of the network.

### APPLICATIONS

- Motorway data communications
- Sub-station instrumentation

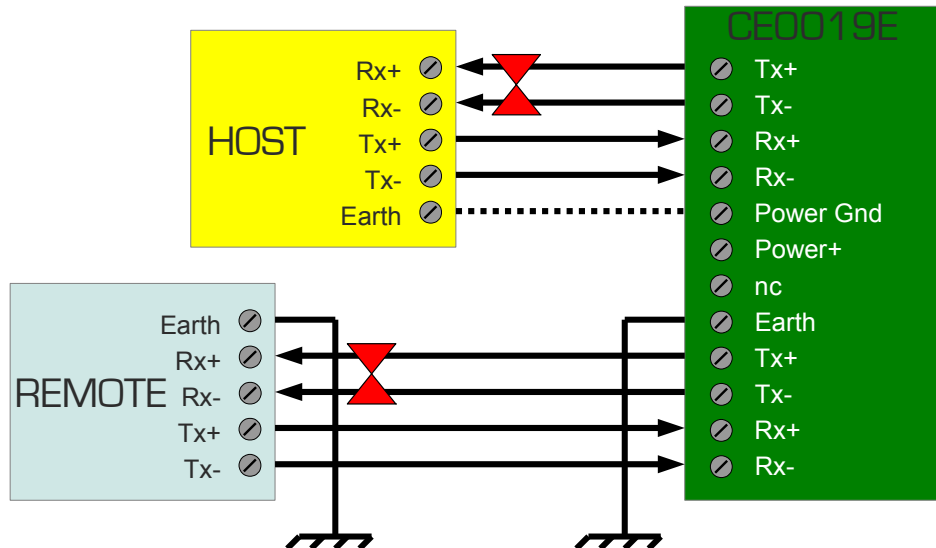



## Specifications

<b>Supply Voltage</b>	+9V to +32VDC
<b>Current</b>	55ma @12VDC, 24ma @30VDC
<b>Physical</b>	80mm x 26mm x 100mm (HWD)
<b>Weight</b>	200 grams (approx)
<b>Case Material</b>	Polyamide 6.6
<b>Environment</b>	0 to +85°C operating
<b>Standards</b>	EIA/RS422; AS/NZS-3548 EMI/EMC; C Tick compliant

<b>RS422 Speed</b>	1M baud max
<b>Termination</b>	120 ohms on receive lines
<b>Indicators</b>	TxData, RxData, Power

## INSTALLATION WIRING DIAGRAM



 Note: Add 120 ohm termination resistor if equipment is not internally terminated

## CONNECTIONS

Pin	Label	Description
1	TX+	RS-422 Transmit A
2	TX-	RS-422 Transmit B
3	RX+	RS-422 Receive A
4	RX-	RS-422 Receive B
5	GND	Power supply ground
6	+VIN	Power supply positive input
7	nc	
8	EARTH	Isolation Protection ground
9	TX+	RS-422 Transmit A
10	TX-	RS-422 Transmit B
11	RX+	RS-422 Receive A
12	RX-	RS-422 Receive B