# level one ®

## COInfinity

# IEC-1140

10/100 Industrial Media Converter, SC SM 40KM, -10 to 60C

## Quick Installation Guide

v1.00 - 1209

# Overview

LevelOne IEC-1140 is an industrial Fast Ethernet media converter with IP30 ingress protection case. This converter is designed to be mounted on an industrial standard DIN-rail, plus the clearly visible status LEDs provide simple monitoring of port link activity.

### Cost Effective

This device operates under -10 to 60 Celsius (-14 to 140 Fahrenheit) temperature that offers optimal suitability for industrial applications at low cost while maintaining all components built to withstand harsh environment applications without compromise reliability and stability.

### Safety

Complies with IEC61000-6-2 EMC Generic standard immunity for Industrial environment; it also complies with IEC60068 vibration and shock resistance as well.

### Plug & Play

This Industrial Media Converter is designed for the demanding industrial environments at businesses in need of instant connectivity with no setup or configure required, truly plug and play.

# Features

- Provides 1-port 10/100Base-TX plus 1-port 100Base-FX
- 100Base-FX Single-mode fibre for the link up to 20 kilometres
- $-10^{0}$C to $60^{0}$C ($-14^{0}$F to $140^{0}$F) and is tested for functional operation at $-20^{0}$C to $70^{0}$C ($-4^{0}$F to $158^{0}$F)
- 10/100Mbps Full/Half duplex, Auto-negotiation, Auto-MDI/MDIX
- Supports 12 to 48VDC power input
- Complies with IEC61000-6-2 EMC Generic standard immunity for industrial environment
- 484K bits buffer memory
- Supports DIN-rail mounting installation

# Package Contents

- IEC-1140
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# LED Status



| LED | Status | Description |
|---|---|---|
| PWR | Steady | Power On |
| | Off | Power Off |
| LNK/ACT | Steady | Network connection is established |
| | Flashing | Transmitting or Receiving data |
| | Off | No connection occurred |
| 100 (Mbps) | Steady | Connection at 100Mbps speed |
| | Off | Connection at 10Mbps speed |

# Power Input
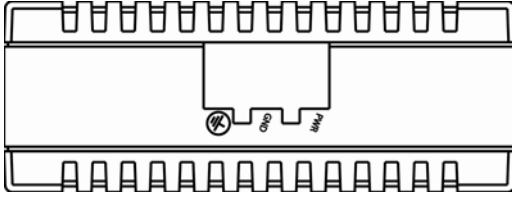
| Terminal Block | PWR1 | 12 – 48VDC |
|---|---|---|
| | GND | Power Ground |
| | ⏚ | **Earth Ground** |

# DIN Rail Mount
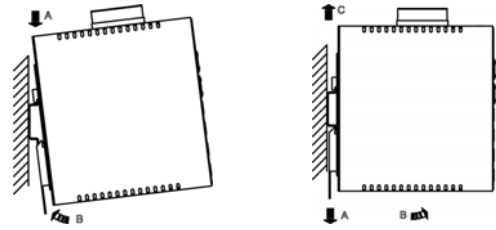


- Assembly: Place the switch on the DIN rail from above using the slot. Push the front of the switch toward the mounting surface until it audibly snaps into place
- Start-up: Connect the supply voltage to start up the switch via the terminal block (or DC JACK)
- Dismantling: Pull out the lower edge and then remove the switch from the DIN rail.

# 10/100Base-TX Connector
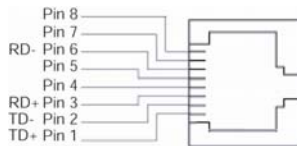


| Pin | Standard Port | Uplink Port |
|---|---|---|
| 1 | Output Transmit Data + | Input Receive Data + |
| 2 | Output Transmit Data - | Input Receive Data - |
| 3 | Input Receive Data + | Output Transmit Data + |
| 4 | NC | NC |
| 5 | NC | NC |
| 6 | Input Receive Data - | Output Transmit Data - |
| 7 | NC | NC |
| 8 | NC | NC |

# 100Base-FX Connection
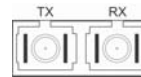


The Tx (transmit) port of device I is connected to the Rx (receive) port of device II, and the Rx (receive) port of device I to the Tx (transmit) port of device II.