LA-POE30G-IM12

Industrial Single Port 10/100/1000 PoE Injector 30w

M12 Connector

Overview

LA-POE30G-IM12 is designed for industrial applications, such as rolling stock, vehicle, and railway applications. The PoE Injector is an advanced IEEE802.3at compliant device with Intelligent Detection that provides 1-port 10/100/1000 Base-T(X) PoE output which is compliant with EN50155. It is specifically designed for the toughest industrial environments. The PoE Injector uses M12 connectors to ensure tight, robust connections, and guarantee reliable operation during environmental disturbances, such as vibration and shock. The device does not turn on power until it detects a valid PoE signature from the PoE devices attached downstream in the network. This provides protection against damage to non-PoE compliant devices which may be connected to the Ethernet cable. It provides an integrated power solution with a wide range voltage of DC12-48V for high availability applications.

Features

- DC12-48V Power Input
- Fully compliant with IEEE802.3af/at
- Support 10/100/1000Base-TX for power and data output
- Support DIN-Rail & Wall-mount installation
- Use M12 connectors to ensure tight and robust connections
- Extensive LED indicators for PoE diagnostics

Specifications

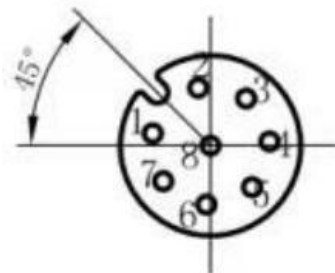| Ethernet	
Standards	IEEE802.3af/at Power over Ethernet
Processing Type	Forward, Half-duplex, Full-duplex
Forward Filter Rate	1,488,000pps (1000Mbps)
Cabling	10/100/1000Base-T
Connector	2*M12 connector (8-pin female M12 A-coding)
Environmental	
Operating Temperature	-40°C to 80°C (-40°F to 176°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Relative Humidity	5% to 95% non-condensing
MTBF	>200,000hrs
Electrical and Mechanical	
Input Power	DC12-48V on 5-pin female M12 A-Coding
Power Consumption	Max. 36W
PoE (Power over Ethernet)	
Standard	IEEE802.3af/at
Port	M12 connector (8-pin female M12 A-coding)
Max. Power per Port	Max. 30W
LED Indicators	
Power	Power Status
PoE	PoE Status
Dimensions (W x D x H)	95 x 70 x 30 mm
Weight	0.25Kg
Casing	Aluminum Case
Mounting Options	DIN-Rail / Wall-mount
Certifications	
Certificates	ISO9001; FCC part 15, Class A, EN50155; EN55022:2006+A1: 2007 Class A
Surge Protection	RJ45: 1KV; Power: 500V; ESD: 4KV/8KV

Application
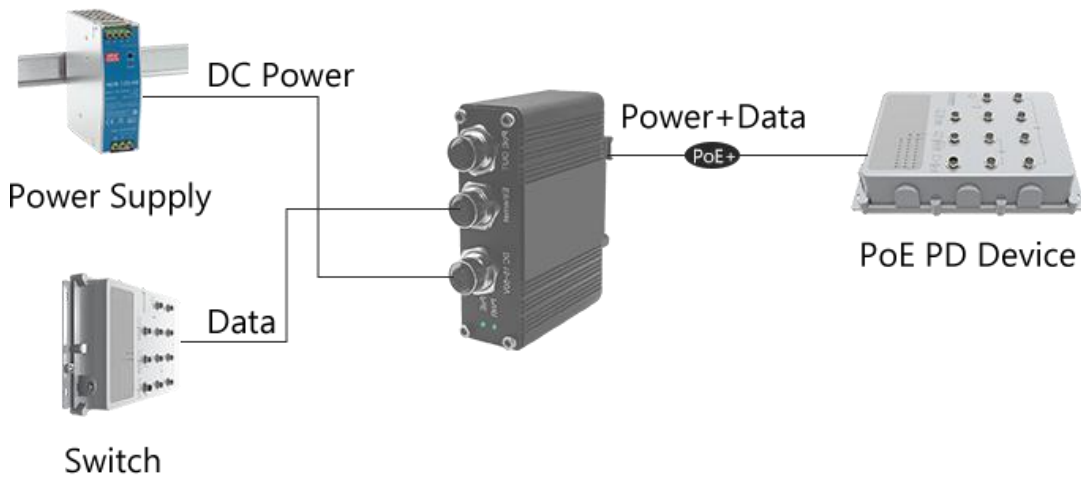
M12 Pin Assignments:

Pin		Assignment	
RJ45	**M12**	**PoE**	**Ethernet**
1	6	TP0+	TP0+
2	4	TP0-	TP0-
3	5	TP1+	TP1+
4	7	TP2+(VCC+)	TP2+
5	1	TP2-(VCC+)	TP2-
6	8	TP1-	TP1-
7	2	TP3+(VCC-)	TP3+
8	3	TP3-(VCC-)	TP3-

RJ45   M12 Female Connector

Ordering Information

PART NO.	DESCRIPTION
LA-POE30G-IM12	Industrial Single Port 10/100/1000M M12 PoE Injector DC12-48V Power Input (Not including Power Supply) Default DIN-Rail Bracket installed (Wall Mount Bracket is included)

https://www.lanaotek.com ☆

Specifications & design are subject to change without prior notice.

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