

EB-PSE Industrial PoE Injectors

Sixnet Networking Series



▶▶▶ Industrial Power over Ethernet Injectors

Pass Power & Data to your Ethernet Field Devices over the same Cable.

The EB-PSE-24V-1 or EB-PSE-48V-2 industrial PoE power injectors add 48 VDC power into 1 or 2 Ethernet ports so that you can pass power and data over the same wire to your Ethernet devices in the field. The 24V-1 model steps up your 24 VDC for sourcing 1 PoE port so no separate DC/DC converter is required. The 48V-2 model is two injectors in one to save space and money. Both are ultra-rugged, reliable and easy to use.



APPLICATIONS

- > Video and security
- > Industrial automation and control
- > Fully IEEE 802.3af compliant PSE (Power Sourcing Equipment) operation

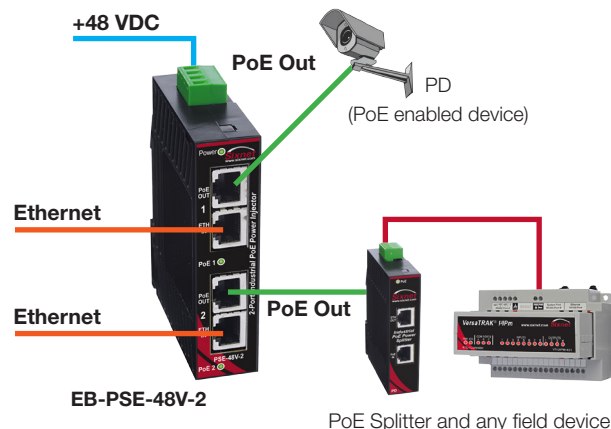
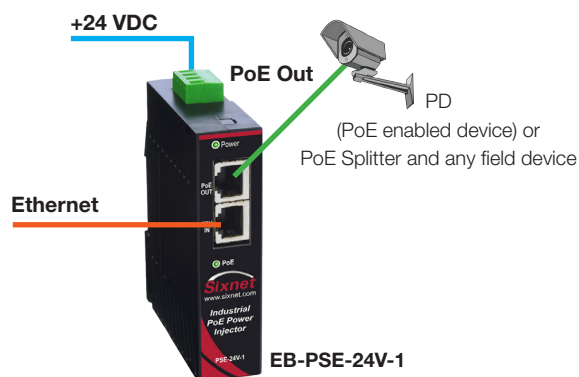
PRODUCT HIGHLIGHTS

- > Process machine and motion control
- > Model 1 directly runs off of your existing 24 VDC and powers 1 PoE (48 VDC) port
- > Model 2 saves you space and money by powering 2 PoE (48 VDC) ports
- > Industrial rated for -40 to 75°C operation

FEATURES & BENEFITS

- > IEEE 802.3af compliant PoE ports
 - Power Sourcing Equipment (PSE) operation
 - Auto-detection of PD (powered devices)
 - Supplies up to 15.4 watts per channel
 - Over-temperature and over-current detection
 - Over and under-voltage protection

- > True plug and play simplicity
 - No user settings
 - Ready to use right out of the box
- > Trouble free operation
 - Ultra-reliable 1,000,000+ hours MTBF
 - Slim package for DIN rail or panel mounting



industrial
networking



Industrial Power over Ethernet Injectors Specifications

SWITCH PROPERTIES

Ethernet protocols supported: All IEEE 802.3
Ethernet connectors per channel: 2 (1 for Ethernet in, 1 for PoE out)
Ethernet port standards: 10/100BaseTX IEEE 802.3 / 802.3u

POE OUTPUT

IEEE 802.3af PoE operation: Power Sourcing Equipment (PSE)
PoE power output
48 VDC @ 15.4 Watts per channel
24V model: Derate 1W per 2°C over 60°C
RJ45 PoE pin assignments
A=unused pair: TX(3,6); RX(1,2); V-(7,8); V+(4,5)
B=signal pair: TX/V- (3, 6); RX/V+ (1, 2)
PoE operation: Auto-detection & power management
PoE disconnect mode: AC for 24V-1 and DC for 48V-2
PoE protection: Over-temp, over-current,
over/under-voltage & transient

OPTIONS

Power input for 48V-2 models: 45-56 VDC @ 31 Watts max.
Power input for 24V-1 models: 18-30 VDC @ 20 Watts max.
Transient protection 15,000 watts peak
Spike protection 5,000 watts (10 times for 10 uS)

SUBMITTED FOR TESTING

Electrical safety:UL508/CSA C22.2/14; EN61010-1, CE
EMI emissions: FCC part 15, ICES-003; EN61000-6-4, CE
EMC immunity: IEC61000-6-2, CE
Hazardous locations: UL1604, CSA C22.2/213 (Class I, Div. 2);
EN60079-15 (Zone 2; Category 3), CE (ATEX)

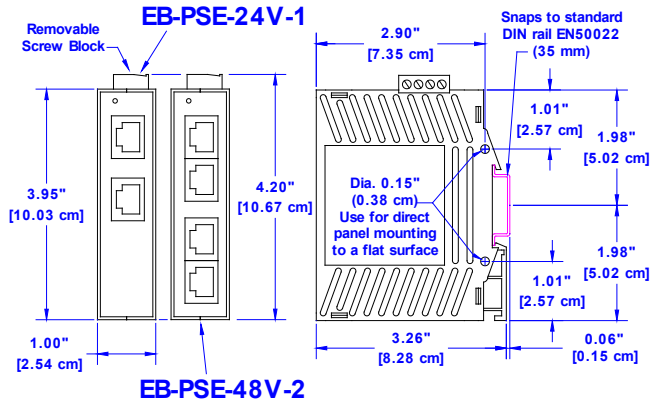
ENVIRONMENTAL

Operating temperature range: -40 to +75°C
(cold startup @ -40°C)
24V model: Derate 1W per 2°C over 60°C
Storage temperature range: -40 to +85 °C
Humidity (non-condensing) 5 to 95% RH
Vibration, shock and freefall: IEC68-2-6, -27 and -32

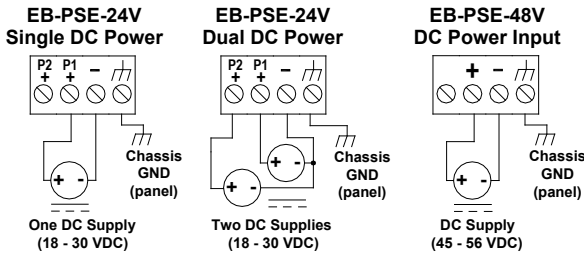
MECHANICAL

DIN rail or direct panel mounting
Packaging - Lexan with IP30 protection
Weight (approximate): 0.17 Kg (0.25 lbs)
Dimensions - 4 x 1 x 3.3" (10 x 2.5 x 8.3 cm)
MTBF (estimated): >1,000,000 hours

DIMENSIONS



POWER WIRING



ORDERING GUIDE

PART NUMBER	DESCRIPTION
EB-PSE-24V-1A	PoE injector for 1 PoE port (uses unused pairs), 24V input
EB-PSE-48V-2A	PoE injector for 2 PoE port (uses unused pairs), 48V input
EB-PSE-24V-1B	Special order: uses signal pairs for PoE, ideal for 4 wire cables
EB-PSE-48V-2B	Special order: uses signal pairs for PoE, ideal for 4 wire cables

ACCESSORIES

PART NUMBER	DESCRIPTION
EB-PS-AC48-75	Industrial power supply, AC to 48 VDC, 75W, 1.5A
EB-PS-AC48-120	Industrial power supply, AC to 48 VDC, 120W, 2.5A
EB-PD-24V-1	PoE splitter for 24VDC devices, 13W

Other voltages available—special order.

All specifications are subject to change. Consult factory for latest info.