

INJ 1100-T DIN Rail PoE Injectors with electrical isolation

IEEE 802.3bt/at/af Mid-span Injector up to 60W



- 10/100/1000 Mbps
- Supply PSE power to PoE, PoE+ and Hi-PoE compliant devices
- Provide 4 to 60 Watts of PoE power
- IEEE 802.3af, IEEE802.3at and IEEE802.3bt compliant
- Support for PoE PDs: Class 1 to 6 & Type 1, 2 and 3
- Extended supply voltage range of 18 V DC ... 57 V DC, redundant
- Safe shield connection to ground potential
- Optional Extended temperature range of -40°C to +75°C
- Electrical isolation of the internal power supply unit


INJ 1100-T PoE Injectors are DIN Rail mounted single port, **PoE mid-span injectors**. They act as an intermediary devices between a non-PoE switch and a PoE device to inject **fully compliant** power over the Ethernet cable. With electrical isolation of the internal power supply, the INJ-1100-T units are also protected against short circuits on the PoE side.

Generating **up to 60 Watts**, the INJ 1100-T provides electrical power to remote **PD access points, pan-tilt and zoom (PTZ) cameras** and **video-phones**. It complies with the **IEEE802.3bt Hi-PoE (60W of power)** or **IEEE 802.3at PoE+ (30W of power)** standards and is also backward compatible with IEEE802.3af PoE (15.4W of power). [Learn more about PoE.](#)

With the INJ 1100-T, there is no need to buy an expensive PoE switch or install electrical wiring and outlets in hard to reach locations. Just use and open port on an existing non-PoE switch to save time and money by sending power and data over the same cable.

INJ 1000 PoE Injector Benefits

DIN Rail Enclosure	Easily mount on a DIN rail or inside distribution boxes using native DIN Rail enclosure with grounding clip. No need for add-on brackets.
Power Over Ethernet (PSE)	Performs the Power Sourcing Equipment (PSE) function on 1 UTP port for IEEE 802.3af (up to 15.4 watts PoE), IEEE 802.3at (up to 30 watts PoE+) or IEEE802.3bt (up to 60 watts Hi-PoE) compliant devices.

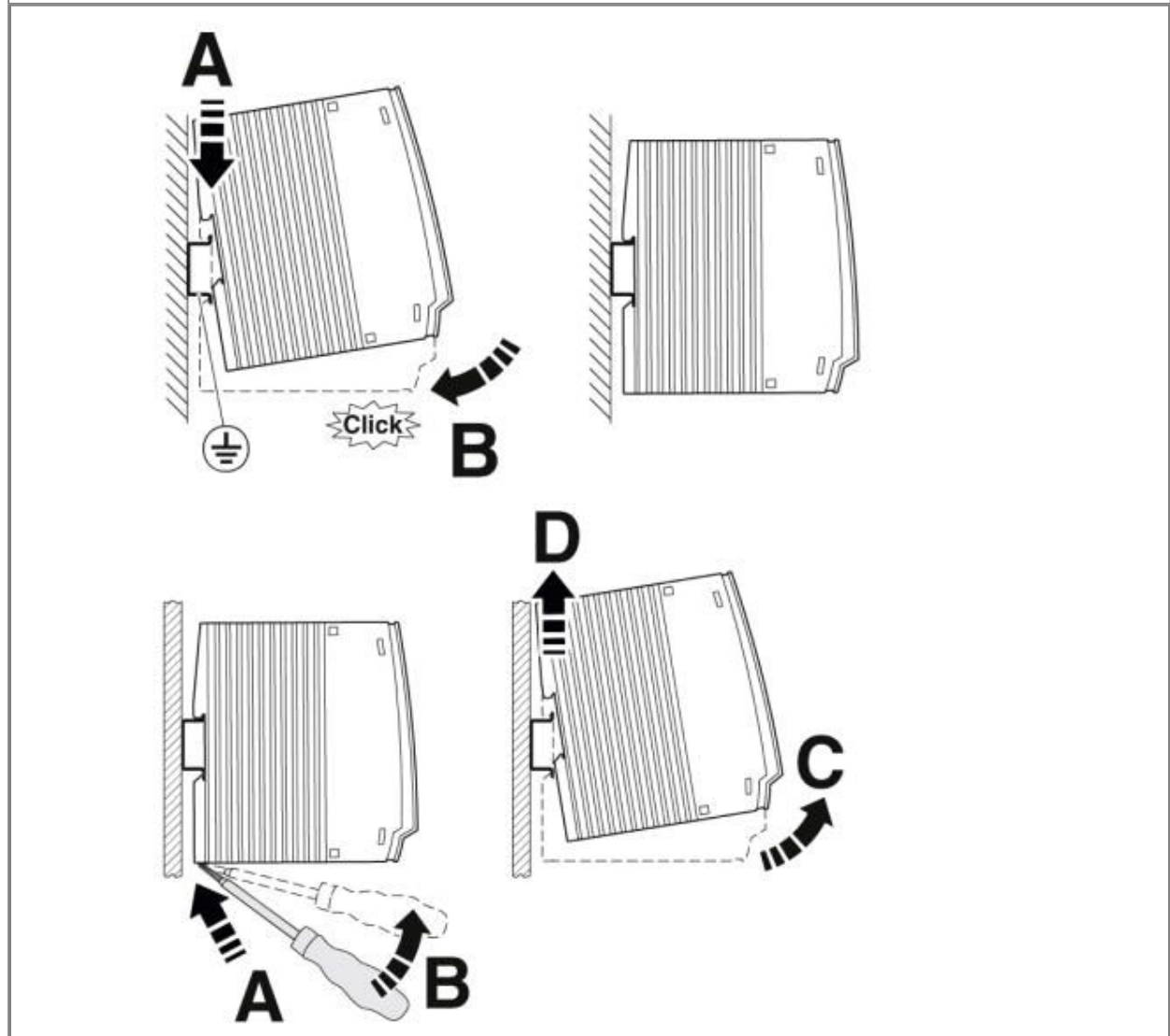
<p>Electrical isolation of the internal power supply unit</p>	<p>The supply voltage and Power over Ethernet port are electrically isolated. This provides optimum protection against short circuits in the data cables on the field side. The passive network isolator protects Ethernet devices from potential differences of up to 4 kV.</p> 
<p>Potential Separation</p>	<p>Safe shield connection to ground potential</p>
<p>On-board PoE Power Controller</p>	<p>This PoE power controller provides compliant power provisioning and monitoring, properly sensing through signature detection whether or not the attach Ethernet devices are PoE capable or not. This provides a safe connection for both PoE and Non-PoE capable devices. Click here for more details</p>
<p>Advanced Power Management</p>	<ul style="list-style-type: none"> • PD signature detection • Current limiting protection • Over-Current Protection • PD power classification detection (Class 0,1,2,3,4,5,6) • Reverse polarity protection

INJ 1100-T 27030098		INJ 1110-T 27030108
Serial interface		
Interface 1		Ethernet
Connection method		RJ45 socket
Transmission length		100 m (including patch cables)
Pin assignment		1:1
Basic functions		PSE/Midspan, compliant with IEEE 802.3af, at
Serial transmission speed		10/100/1000 Mbps
Output nominal voltage		54 V DC (PoE)
Output power	30 W	60 W
Maximum output power	40 W	75 W
Interface 2		Ethernet
Connection method		RJ45 CAT5e
Ambient conditions		
Ambient temperature (storage/transport)		-40°C ... 85°C
Permissible humidity (operation)		10 % ... 95 % (non-condensing)
General		
Electrical isolation		VCC // FE // PoE
Test voltage data interface/power supply		1.5 kV AC (50 Hz, 1 min.)
Electromagnetic compatibility		Conformance with EMC Directive 2014/30/EU
Mounting position		vertical
Net weight		324.72 g
Housing material		Plastic
Color		Gray
MTTF (SN 29500 standard, temperature 25 °C, operating cycle 21 % (5 days a week, 8 hours a day))	2342 Years	3062 Years
MTTF (SN 29500 standard, temperature 40 °C, operating cycle 34.25 % (5 days a week, 12 hours a day))	1167 Years	1397 Years
MTTF (SN 29500 standard, temperature 40 °C, operating cycle 100 % (7 days a week, 24 hours a day))	467 Years	558 Years
Conformance		CE-compliant
UL, USA		UL 60079-0 Ed. 6 / UL 60079-15 Ed. 4

UL, USA/Canada	Class I, Zone 2, AEx nA IIC T4, Ex nA IIC Gc X T4	
Class I, Division 2, Groups A, B, C, D		
UL, Canada	CSA 22.2 No. 60079-0 Ed. 3 / CSA 22.2 No. 60079-15:16	
Standards and Regulations		
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU	
Type of test	Vibration resistance in acc. with EN 60068-2-6/IEC 60068-2-6	
Test result	10 Hz ... 57 Hz, amplitude ± 3.5 mm, 57 Hz ... 150 Hz, 5g	
Type of test	Shock in acc. with EN 60068-2-27/IEC 60068-2-27	
Test result	30g for 11 ms, three shocks in each spatial direction	
Type of test	Continuous shock according to EN 60068-2-27/IEC 60068-2-27	
Test result	10g for 16 ms, 1000 shocks in each spatial direction	
Standards/regulations	EN 61000-4-2	
Contact discharge	± 6 kV (Test Level 3)	
Indirect discharge	± 6 kV	
Standards/regulations	EN 61000-4-3	
Frequency range	80 MHz ... 3 GHz (Test Level 3)	
Standards/regulations	EN 61000-4-4	
Comments	Criterion B	
Standards/regulations	EN 61000-4-5	
Signal	± 1 kV (Data line, asymmetrical)	
± 2 kV (I/O cable on field side only, asymmetric)		
Standards/regulations	EN 61000-6-4	
EN 61000-4-6		
Frequency range	0.15 MHz ... 80 MHz	
Conformance	CE-compliant	
UL, USA	UL 60079-0 Ed. 6 / UL 60079-15 Ed. 4	
UL, USA/Canada	Class I, Zone 2, AEx nA IIC T4, Ex nA IIC Gc X T4	
Class I, Division 2, Groups A, B, C, D		
UL, Canada	CSA 22.2 No. 60079-0 Ed. 3 / CSA 22.2 No. 60079-15:16	
Noxious gas test	ISA-S71.04-1985 G3 Harsh Group A	
Dimensions		
Width	30.2 mm	
Height	130 mm	

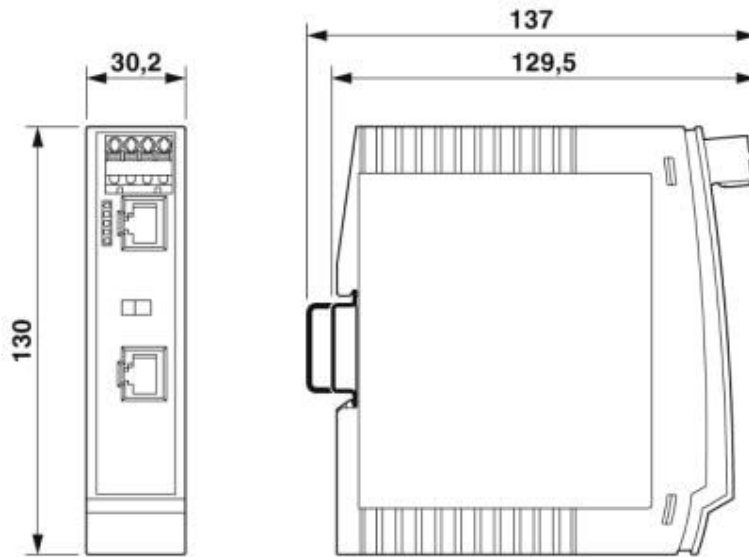
Depth	120 mm	
Note		
Utilization restriction	1	
Power supply		
Nominal supply voltage	24 V DC	
	48 V DC	
Supply voltage range	18 V DC ... 57 V DC	
Max. current consumption	2.1 A	4.2 A
	1.4 A (24 V DC)	2.73 A (24 V DC)
	0.7 A (48 V DC)	1.34 A (48 V DC)
Power consumption	≤ 75 W	
Protective circuit	Reverse polarity protection	
Conductor cross section flexible max.	4.00 mm ²	
Conductor cross section flexible min.	0.75 mm ²	
Conductor cross section solid max.	4.00 mm ²	
Conductor cross section solid min.	0.75 mm ²	
Conductor cross section AWG max.	12	
Conductor cross section AWG min.	20	
Environmental Product Compliance		
REACH SVHC	Lead 7439-92-1	
China RoHS	Environmentally friendly use period: unlimited = EFUP-e	

Easily Mount your PoE Injector on a DIN Rail



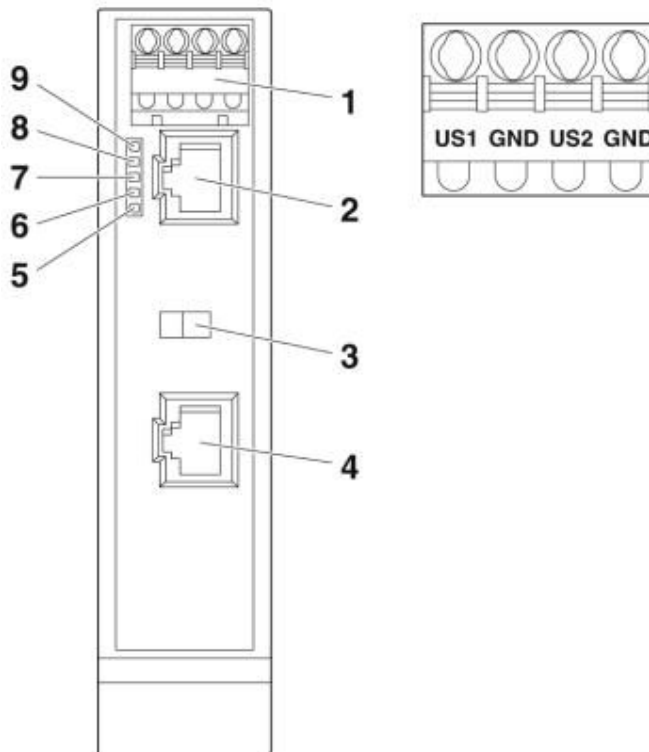
INJ 1100-T PoE Injector Dimensional drawing of Compact housing


Two RJ45 Sockets



INJ 1100-T PoE Injector Front View

Two RJ45 Sockets



	<p>INJ 1100-T DIN Rail PoE Injector with electrical isolation: 30 W PoE+ compliant, two RJ45 sockets, 10/100/1000 Mbps, IP20, expanded temperature range of -40°C ... 75°C, potential separation</p>	None	<u>27030098</u>
	<p>INJ 1110-T DIN Rail PoE Injector with electrical isolation: 60 W Type 3 Hi-PoE compliant, two RJ45 sockets, 10/100/1000 Mbps, IP20, expanded temperature range of -40°C ... 75°C, potential separation</p>	None	<u>27030108</u>