2703007

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PoE injector, 60 W, two RJ45 jacks, 10/100/1000 Mbps, DIN rail mounting, IP20

Product description

The midspan injectors connect Ethernet devices without PoE (e.g., switches) to PoE-capable end devices (e.g., IP cameras). As power sourcing equipment (PSE), the injector supplies the required power to a powered device (PD) via the data cable. The injector and end device negotiate the electrical power requirements autonomously.

Your advantages

- Extended supply voltage range of 18 V DC ... 57 V DC, redundant
- 10/100/1000 Mbps
- · Mounting on a DIN rail
- · Safe shield connection to ground potential

Commercial data

Item number	2703007
Packing unit	1 pc
Sales key	DN18
Product key	DNC351
Catalog page	Page 345 (C-6-2019)
GTIN	4055626462950
Weight per piece (including packing)	394.5 g
Weight per piece (excluding packing)	380 g
Customs tariff number	85176200
Country of origin	TW

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Technical data

Dimensions

Dimensional drawing	30.2 , 137
Width	30.2 mm
Height	130 mm
Depth	120 mm
Material specifications	
Color	gray
Housing material	Plastic
Mounting	
Mounting type	DIN rail mounting
Mounting position	vertical
Interfaces	
Basic functions	PSE/Midspan, compliant with IEEE 802.3af, at
Data: Power over Ethernet	
Serial transmission speed	10/100/1000 Mbps
Connection method	RJ45 jack
No. of channels	1
Pin assignment	1:1
Transmission length	100 m (including patch cables)
Output nominal voltage	54 V DC (PoE)
Output power	60 W

Data: Ethernet

Connection method	RJ45 CAT5e
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Product properties

Product type	Injector
MTTF	133.8 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%)

Electrical properties

Maximum power dissipation for nominal condition	65.52 W
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Supply

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Supply voltage range	18 V DC 57 V DC (Ordinary locations)
	24 V DC 48 V DC (Hazardous locations)
Nominal supply voltage	24 V DC
	48 V DC
Max. current consumption	4.2 A
	2.73 A (24 V DC)
	1.34 A (48 V DC)
Power consumption	≤ 75 W
Protective circuit	Reverse polarity protection

Connection data

Supply

Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm ² 2.5 mm ²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm ² 2.5 mm ²
Conductor cross section, flexible	0.20 mm ² 2.50 mm ²
Conductor cross section, rigid	0.20 mm ² 2.50 mm ²
Conductor cross section AWG	20 12

Environmental and real-life conditions

Degree of protection	IP20 (Non-certificated by UL)
Ambient temperature (operation)	0 °C 60 °C
Ambient temperature (storage/transport)	-40 °C 85 °C
Altitude	≤ 5000 m (For restrictions, see the manufacturer's declaration for altitude operation)
	≤ 2000 m (with UL approval)
Permissible humidity (operation)	10 % 95 % (non-condensing)

Approvals

CE	
Identification	CE-compliant
UL, USA/Canada	
Identification	Class I, Div. 2, Groups A, B, C, D T4
Corrosive gas test	
Identification	ISA-S71.04-1985 G3 Harsh Group A
EMC data	
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Electrostatic discharge	
Standards/regulations	EN 61000-4-2

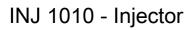
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Electrostatic discharge	
Contact discharge	± 6 kV (Test Level 3)
Discharge in air	± 8 kV (Test Level 3)
Indirect discharge	± 6 kV
Comments	Criterion B
Electromagnetic HF field	
Standards/regulations	EN 61000-4-3
Electromagnetic HF field	20 Mile 2 Cile (Test Level 2)
Frequency range	80 MHz 3 GHz (Test Level 3) 10 V/m
Field intensity Comments	Criterion A
Comments	Citerion A
Fast transients (burst)	
Standards/regulations	EN 61000-4-4
Fast transients (burst)	
Input	± 2.2 kV (1 minute)
Signal	± 2.2 kV (1 minute)
Comments	Criterion B
Surge current load (surge)	
Standards/regulations	EN 61000-4-5
Standal us/regulations	
Surge current load (surge)	
Input	± 0.5 kV
Signal	± 1 kV (Data line, asymmetrical)
	± 2 kV (I/O cable on field side only, asymmetric)
Comments	Criterion B
Conducted interference	
Standards/regulations	EN 61000-4-6
Conducted interference	
Frequency range	0.15 MHz 80 MHz
Comments	Criterion A
Voltage	10 V
Emitted interference	
Standards/regulations	EN 61000-6-4
Comments	Class A, industrial applications
Emitted interference	
Standards/regulations	EN 61000-6-3
Comments	Class B, domain of use: residential and small commercial

System properties





Functionality

Basic functions

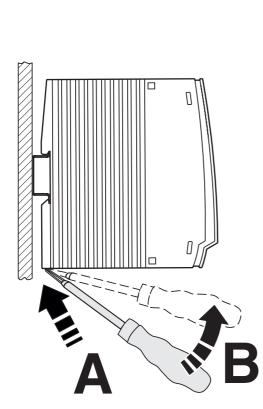
PSE/Midspan, compliant with IEEE 802.3af, at

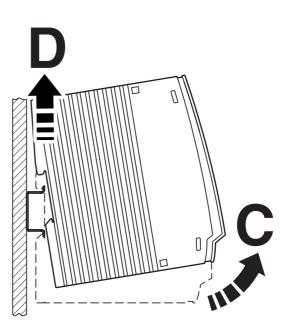
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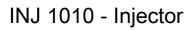
Drawings

Schematic diagram

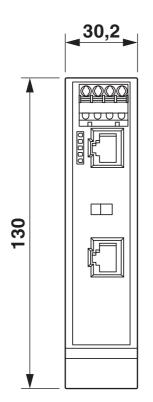




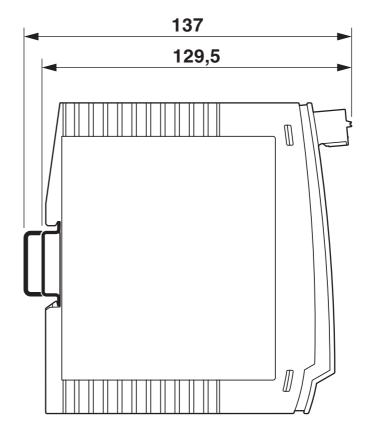
Removal

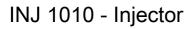






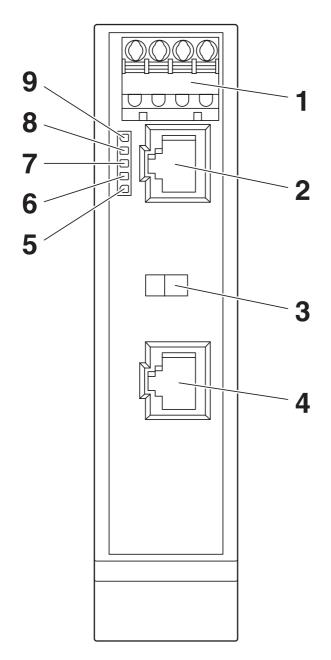
Dimensional drawing

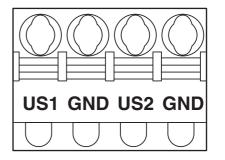




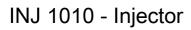


Schematic diagram



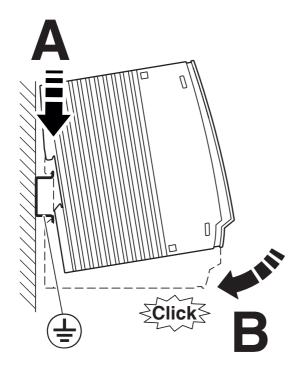


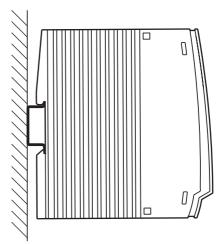
Front view





Schematic diagram





Mounting

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Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2703007

ERC	EAC Approval ID: RU *-DE.A*30.B.03171
	UL Listed Approval ID: FILE E 238705
•	CUL Listed Approval ID: FILE E 238705
	AE-RoHS oproval ID: 23-09-84497
<u>.</u>	CUL Listed Approval ID: FILE E 196811
	UL Listed Approval ID: FILE E 196811
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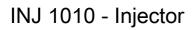
Classifications

ECLASS

ECLASS-11.0	19170112
ECLASS-12.0	19170112
ECLASS-13.0	19170112

ETIM

	ETIM 9.0	EC002697		
UNSPSC				
	UNSPSC 21.0	43223300		





Environmental product compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 10;
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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Accessories

FL CRIMPTOOL - Assembly tool

2744869 https://www.phoenixcontact.com/us/products/2744869

Crimping pliers, for assembling the RJ45 plugs FL PLUG RJ45..., for assembly on site



FL CAT5 HEAVY - Data cable

2744814

https://www.phoenixcontact.com/us/products/2744814



CAT5-SF/UTP cable (J-02YS(ST)C HP 2 x 2 x 24 AWG), heavy-duty installation cable, 2 x 2 x 0.22 mm², solid conductor, shielded, outer sheath: 7.8 mm diameter, inner sheath: 5.75 mm \pm 0.15 mm diameter

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FL CAT5 HEAVY CONF/ - Network cable

2744827

https://www.phoenixcontact.com/us/products/2744827



CAT5-SF/UTP cable (J-02YS(ST)C HP 2 x 2 x 24 AWG), heavy-duty installation cable, 2 x 2 x 0.22 mm², solid conductor, shielded, outer sheath: 7.8 mm diameter, inner sheath: 5.75 mm \pm 0.15 mm diameter, preassembled on both sides with RJ45 plug, crossover or line

FL CAT5 FLEX - Installation cable

2744830 https://www.phoenixcontact.com/us/products/2744830



By the meter, Installation cable, Ethernet CAT5 (100 Mbps), shielded, PUR halogen-free, water blue RAL 5021, 4-wire (2x2xAWG26/7, SF/UTP), color single wire: white/orange-orange, white/green-green, cable length: Free entry (1. 0 ... 1000.0 m)

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FL CAT5 FLEX CONF/ - Network cable

2744843

https://www.phoenixcontact.com/us/products/2744843



CAT5-SF/UTP cable (J-LI02YS(ST)C H 2 x 2 x 26 AWG), light-duty, flexible installation cable 2 x 2 x 0.14 mm², stranded, shielded, outer sheath: 5.75 mm \pm 0.15 mm diameter, preassembled on both sides with RJ45 plug, crossover or line assignment

FL ISOLATOR 100-RJ/SC - Network isolator

2313928 https://www.phoenixcontact.com/us/products/2313928



Passive network isolator for electrical isolation in Ethernet networks. This protects Ethernet devices from potential differences of up to 4 kV. Can be used for transmission speeds of up to 100 Mbps. Connection using RJ45 and COMBICON plug-in screw terminal block.

2703007 https://www.phoenixcontact.com/us/products/2703007



FL ISOLATOR 100-RJ/RJ - Network isolator

2313931

https://www.phoenixcontact.com/us/products/2313931



Passive network isolator for electrical isolation in Ethernet networks. This protects Ethernet devices from potential differences of up to 4 kV. Can be used for transmission speeds of up to 100 Mbps. Possible to connect two RJ45 plugs.

FL ISOLATOR 1000-RJ/RJ - Network isolator

2313915 https://www.phoenixcontact.com/us/products/2313915



Passive network isolator for electrical isolation in Ethernet networks. This protects Ethernet devices from potential differences of up to 4 kV. Can be used for transmission speeds of up to 1 Gbps. Possible to connect two RJ45 plugs.

2703007 https://www.phoenixcontact.com/us/products/2703007



FL ISOLATOR 100-M12 - Network isolator

2902985

https://www.phoenixcontact.com/us/products/2902985



Passive network isolator for electrical isolation in Ethernet networks. For the protection of Ethernet devices against potential differences of up to 4 kV. Can be used for transmission speeds of up to 100 Mbps. Ethernet connection via two M12 sockets (D-coded).

FL CAT5 PATCH 0,3 - Patch cable

2832250 https://www.phoenixcontact.com/us/products/2832250



Patch cable, CAT5, assembled, 0.3 m

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FL CAT5 PATCH 0,5 - Patch cable

2832263 https://www.phoenixcontact.com/us/products/2832263

Patch cable, CAT5, assembled, 0.5 m



FL CAT5 PATCH 1,0 - Patch cable

2832276 https://www.phoenixcontact.com/us/products/2832276



Patch cable, CAT5, assembled, 1 m

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FL CAT5 PATCH 1,5 - Patch cable

2832221 https://www.phoenixcontact.com/us/products/2832221

Patch cable, CAT5, assembled, 1.5 m



FL CAT5 PATCH 2,0 - Patch cable

2832289 https://www.phoenixcontact.com/us/products/2832289



Patch cable, CAT5, assembled, 2 m

2703007 https://www.phoenixcontact.com/us/products/2703007



FL CAT5 PATCH 3,0 - Patch cable

2832292 https://www.phoenixcontact.com/us/products/2832292

Patch cable, CAT5, assembled, 3 m



FL CAT6 PATCH 0,3 - Patch cable

2891181 https://www.phoenixcontact.com/us/products/2891181



Patch cable, CAT6, preassembled, 0.3 m

2703007 https://www.phoenixcontact.com/us/products/2703007



FL CAT6 PATCH 0,5 - Patch cable

2891288 https://www.phoenixcontact.com/us/products/2891288

Patch cable, CAT6, preassembled, 0.5 m



FL CAT6 PATCH 1,0 - Patch cable

2891385 https://www.phoenixcontact.com/us/products/2891385



Patch cable, CAT6, preassembled, 1.0 m

2703007 https://www.phoenixcontact.com/us/products/2703007



FL CAT6 PATCH 1,5 - Patch cable

2891482 https://www.phoenixcontact.com/us/products/2891482

Patch cable, CAT6, preassembled, 1.5 m



FL CAT6 PATCH 2,0 - Patch cable

2891589 https://www.phoenixcontact.com/us/products/2891589



Patch cable, CAT6, preassembled, 2.0 m

2703007 https://www.phoenixcontact.com/us/products/2703007



FL CAT6 PATCH 3,0 - Patch cable

2891686 https://www.phoenixcontact.com/us/products/2891686

Patch cable, CAT6, preassembled, 3.0 m



FL CAT6 PATCH 5,0 - Patch cable

2891783 https://www.phoenixcontact.com/us/products/2891783



Patch cable, CAT6, preassembled, 5.0 m

2703007 https://www.phoenixcontact.com/us/products/2703007



FL CAT6 PATCH 7,5 - Patch cable

2891880 https://www.phoenixcontact.com/us/products/2891880

Patch cable, CAT6, preassembled, 7.5 m



FL CAT6 PATCH 10 - Patch cable

2891877 https://www.phoenixcontact.com/us/products/2891877



Patch cable, CAT6, preassembled, 10 m

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FL CAT6 PATCH 12,5 - Patch cable

2891369 https://www.phoenixcontact.com/us/products/2891369

Patch cable, CAT6, preassembled, 12.5 m



FL CAT6 PATCH 15,0 - Patch cable

2891372 https://www.phoenixcontact.com/us/products/2891372



Patch cable, CAT6, preassembled, 15.0 m

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FL CAT6 PATCH 20,0 - Patch cable

2891576 https://www.phoenixcontact.com/us/products/2891576

Patch cable, CAT6, preassembled, 20.0 m



VS-CABLE-STRIP-VARIO - Stripping tool

1657407 https://www.phoenixcontact.com/us/products/1657407

Stripping tool, for the multi-level stripping of shielded cables



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VS-08-RJ45-5-Q/IP20 - RJ45 connector

1656725

https://www.phoenixcontact.com/us/products/1656725



RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5, material: Plastic, connection method: Insulation displacement connection, connection cross section: AWG 26- 23, cable outlet: straight, color: traffic grey A RAL 7042, Ethernet

VS-08-RJ45-5-Q/IP20 BK - RJ45 connector

1658008

https://www.phoenixcontact.com/us/products/1658008



RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5, material: Plastic, connection method: Insulation displacement connection, connection cross section: AWG 26- 23, cable outlet: straight, color: black, Ethernet

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SZF 0-0,4X2,5 - Screwdriver

1204504

https://www.phoenixcontact.com/us/products/1204504



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: $0.4 \times 2.5 \times 75$ mm, 2-component grip, with non-slip grip

MICROFOX-SP - Diagonal cutter

1212488 https://www.phoenixcontact.com/us/products/1212488



Electronic diagonal cutter, tapered head, angled (21°), without chamfer, with opening spring

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VS-OE-OE-94F/... - Data cable

1417359

https://www.phoenixcontact.com/us/products/1417359



Data cable, Ethernet CAT6_A (10 Gbps), 8-position, PUR halogen-free, water blue RAL 5021, shielded (Tinned copper braided shield), free cable end, on free cable end, cable length: Free entry (0.5 ... 400 m)

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