2703006

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PoE injector, 30 W, two RJ45 jacks, 10/100/1000 Mbps, DIN rail mounting, IP20, expanded temperature range of -40°C ... 75°C

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 temperature range of -40 °C ... +75 °C
- 10/100/1000 Mbps
- Mounting on a DIN rail
- Extended supply voltage range of 18 V DC ... 57 V DC, redundant
- Safe shield connection to ground potential

Commercial data

Item number	2703006
Packing unit	1 pc
Sales key	DN18
Product key	DNC351
Catalog page	Page 345 (C-6-2019)
GTIN	4055626462943
Weight per piece (including packing)	396.7 g
Weight per piece (excluding packing)	377.8 g
Customs tariff number	85176200
Country of origin	TW

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Technical data

Dimensions

	Dimensional drawing	
	Width	30.2 mm
	Height	130 mm
	Depth	120 mm
Mat	terial specifications	
	Color	gray
	Housing material	Plastic
Мо	unting	
	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	30 W

Data: Ethernet

Connection method	RJ45 CAT5e
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Product properties

Product type	Injector
MTTF	110 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%)

Electrical properties

Maximum power dissipation for nominal condition	33.6 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	2.1 A
	1.4 A (24 V DC)
	0.7 A (48 V DC)
Power consumption	≤ 36 W
Protective circuit	Reverse polarity protection

Connection data

Supply

Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² 2.5 mm²
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

Ambient conditions

Degree of protection	IP20 (Non-certificated by UL)
Ambient temperature (operation)	-40 °C 75 °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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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	EN 61000-4-3
Standards/regulations	EN 81000-4-3
Electromagnetic HF field	
Frequency range	80 MHz 3 GHz (Test Level 3)
Field intensity	10 V/m
Comments	Criterion 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
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
	Class B, domain of use: residential and small commercial

System properties

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Functionality

Basic functions

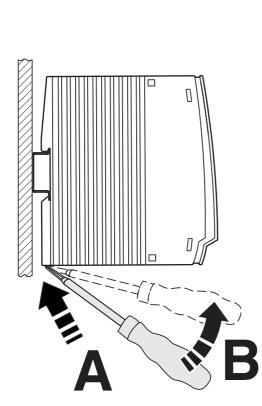
PSE/Midspan, compliant with IEEE 802.3af, at

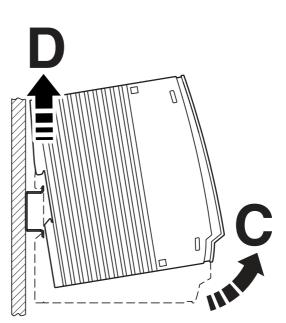
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Drawings

Schematic diagram

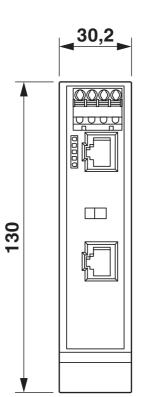




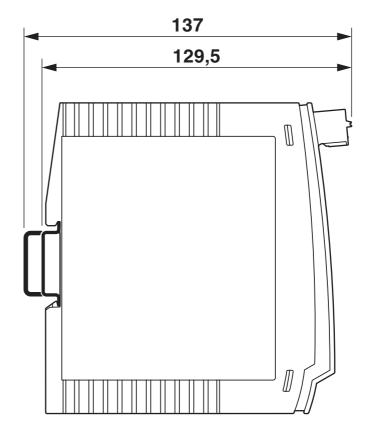
Removal

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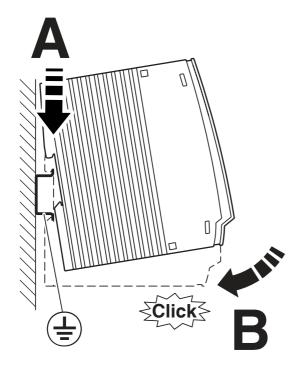
Dimensional drawing

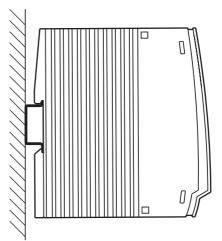


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Schematic diagram





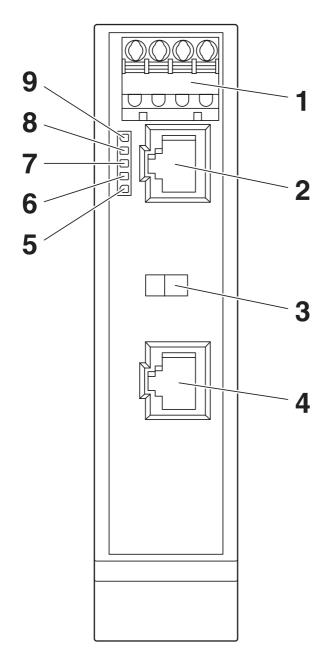
Mounting

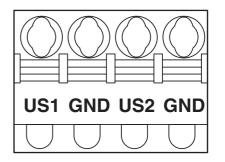
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Schematic diagram





Front view

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Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2703006

ERC	EAC Approval ID: RU *-DE.A*30.B.03171
	UL Listed Approval ID: FILE E 238705
<u>@</u>	CUL Listed Approval ID: FILE E 238705
@	CUL Listed Approval ID: FILE E 196811
	UL Listed Approval ID: FILE E 196811
c	ULus Listed
c	ULus Listed

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Classifications

ECLASS

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

ETIM

	ETIM 8.0	EC002697		
UNSPSC				
	UNSPSC 21.0	43223300		

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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.

2703006 https://www.phoenixcontact.com/us/products/2703006



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.

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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

2703006 https://www.phoenixcontact.com/us/products/2703006



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

2703006 https://www.phoenixcontact.com/us/products/2703006



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

2703006 https://www.phoenixcontact.com/us/products/2703006



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

2703006 https://www.phoenixcontact.com/us/products/2703006



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

2703006 https://www.phoenixcontact.com/us/products/2703006



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

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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

2703006 https://www.phoenixcontact.com/us/products/2703006



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

2703006 https://www.phoenixcontact.com/us/products/2703006



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

2703006 https://www.phoenixcontact.com/us/products/2703006



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

1417359

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



Data cable, Ethernet $CAT6_A$ (10 Gbps), 8-position halogen-free, shielded, free cable end, on free cable end, cable length: Free entry (0.5 ... 400 m)

UNO-PS/1AC/24DC/ 60W - Power supply unit

2902992

https://www.phoenixcontact.com/us/products/2902992



Primary-switched UNO POWER power supply for DIN rail mounting, input: 1-phase, output: 24 V DC/60 W

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TRIO-PS-2G/1AC/24DC/3/C2LPS - Power supply unit

2903147

https://www.phoenixcontact.com/us/products/2903147



Primary-switched TRIO POWER power supply with push-in connection for DIN rail mounting, input: 1-phase, output: 24 V DC/3 A C2LPS

QUINT4-PS/1AC/24DC/2.5/PT - Power supply unit

2909576

https://www.phoenixcontact.com/us/products/2909576



Primary-switched power supply unit QUINT POWER, Push-in connection, DIN rail mounting, input: 1-phase, output: 24 V DC / 2.5 A

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