

# SCX 2POE 2LX - Industrial Ethernet Switch



1108543

<https://www.phoenixcontact.com/us/products/1108543>

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Smart Ethernet Box for connecting PoE end devices, two PoE ports, two uplink ports (SFP slots), integrated managed switch, surge protection, and splice tray, supply voltage 100 ... 240 V AC, wall or mast mounting

## Product description

The Smart Ethernet Box is used to connect PoE end devices such as IP cameras to a video server. You can use the Smart Ethernet Box to supply voltage to PoE end devices and other external devices. The Smart Ethernet Box is a manageable outdoor PoE switch with a power supply unit, a wiring space for the AC voltage supply, replaceable surge protective modules, and an area with an integrated 24 V DC supply and a DIN rail for mounting additional devices. The Smart Ethernet Box integrates the functions of conventional connection boxes equipped with standard DIN rail devices in a compact device. This saves you time during planning and installation. Numerous management and monitoring functions ensure reliable operation of the system.

## Your advantages

- Cost savings with an all-in-one solution that provides all functions in a single device
- Significant time savings with adapter for wall and mast mounting
- Minimal wiring effort
- Replaceable surge protection
- A wide range of alarm messages via SNMP, such as in the event of sabotage attempts or defective surge protection
- Advanced PoE management for reliable operation of IP cameras
- Quick and easy startup and configuration via web-based management or the FL Network Manager software
- Integrated splice tray for safe storage of fiber connections and fiber reserves
- Resistant to salt spray

## Commercial data

Item number	1108543
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN08
Product key	DNC371
GTIN	4063151013196
Weight per piece (including packing)	4,968 g
Weight per piece (excluding packing)	4,390 g
Customs tariff number	85176200
Country of origin	DE

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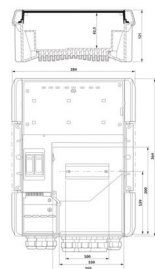


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## Technical data

### Dimensions

Dimensional drawing	
Width	284 mm
Height	364 mm
Depth	121 mm

### Notes

#### Note on application

Note on application	Only for industrial use
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### Material specifications

Color (Housing)	light gray (RAL 7035)
Material (Housing)	Polycarbonate
Material (Cable gland)	Polyamide
Material (Cable gland seal)	Neoprene
Flammability rating according to UL 94	V0 (Housing, a vertically clamped sample is extinguished within 10 seconds, no flaming droplets of molten plastic, smoldering for a maximum of 60 seconds) V2 (Cable gland; a vertically tensioned sample is extinguished within 30 seconds; flaming droplets are permitted)

### Mounting

Mounting type	Panel mounting Mast mounting
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### Interfaces

Basic functions	Store-and-forward switch, complies with IEEE 802.3
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#### Data: Ethernet / Fast Ethernet / Gigabit Ethernet

Transmission speed	10/100/1000 Mbps
Connection method	RJ45 jack
Note on the connection method	Auto negotiation and autocrossing
No. of channels	2 (RJ45 PoE ports)
Transmission length	100 m (per segment)
Transmission medium	Copper

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Maximum output power	165 W (>55°C derating, see data sheet)
	155 W (If switching output is active, >55°C derating)
	90 W (per port POE1/2, >50°C derating, see data sheet)

## Data: Ethernet / Fast Ethernet / Gigabit Ethernet

Transmission speed	100/1000 Mbps (depending on the SFP module used)
Connection method	SFP
Note on the connection method	The SFP modules are available as accessories
No. of channels	2 (SFP ports)
Transmission length	< 80 km (depending on the SFP module used)
Transmission medium	depending on the SFP module used

## Data: Configuration interface

Connection method	RJ45 jack
No. of channels	1 (RJ45 port)

## Data: Switching output

Connection method	Push-in spring connection
No. of channels	1 (Push-in Technology)
Single conductor/terminal point, rigid	0.2 mm² ... 1.5 mm²
Single-wire/terminal point, flexible	0.2 mm² ... 1.5 mm²
Conductor cross-section, flexible, with ferrule, with plastic sleeve	0.25 mm² ... 0.75 mm² (Stripping length 8 mm)
Conductor cross-section flexible, with ferrule without plastic sleeve	0.25 mm² ... 1.5 mm² (Stripping length 8 mm)
Max. AWG conductor cross-section, flexible	16
Min. AWG conductor cross-section, flexible	24
Stripping length	10 mm
Load/output load current output	no inductive load
Output nominal voltage	24 V DC ±10 % (Supply for devices within the Smart Ethernet Box)
Output current	300 mA (typical)

## Product properties

Product type	Switch
Product family	Smart Ethernet Box
MTTF	547 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)
	272 Years (SN 29500 standard, temperature 40°C, operating cycle 34.25%)
	113 Years (SN 29500 standard, temperature 40°C, operating cycle 100%)
Basic functions	Store-and-forward switch, complies with IEEE 802.3

## Insulation characteristics

Protection class	I (Protective grounding of all conductive housing parts)
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## Insulation characteristics

Overvoltage category	III (With protection modules plugged in)
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	II (Without protection modules)
Pollution degree	2

## Switch functions

Diagnostic functions	RMON History
	LLDP (Link Layer Discovery Protocol)
	SNMP traps
	N:1-Portmirroring
	ACD (Address Conflict Detection)
Basic functions	Store-and-forward switch, complies with IEEE 802.3
Filter functions	Port prioritization
	VLAN (up to 32 VLANs)
IP parameterization	DHCP client
	BootP
	Static IP address
MAC address table	8k
Management	Web-based management (HTTP/HTTPS)
	SNMPv2/v3
	Command Line Interface (Telnet, SSH)
Redundancy	RSTP (Rapid Spanning Tree Protocol in accordance with IEEE 802.1D-2004)
	Large Tree Support
	FRD (Fast Ring Detection)
Additional functions	Jumbo frames
Time synchronization	SNTP (Simple Network Time Protocol)

## Security functions

Basic functions	Store-and-forward switch, complies with IEEE 802.3
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## Security functions

Basic functions	Store-and-forward switch, complies with IEEE 802.3
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## Electrical properties

Maximum power dissipation for nominal condition	min. 7 W (at 230 V AC, standby mode)
Rated insulation voltage	3 kV AC (Input / output, IEC/EN 60950-1)

## Supply

Supply voltage range	100 V AC ... 240 V AC -15 % ... +10 % (Single-phase)
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## Connection data

### Supply

Connection method	Push-in spring connection
Conductor cross-section flexible, with ferrule without plastic sleeve	0.2 mm² ... 4 mm²
Conductor cross-section, flexible, with ferrule, with plastic sleeve	0.2 mm² ... 4 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² ... 1.5 mm²
Single conductor/terminal point, rigid	1 mm² ... 6 mm²
Single-wire/terminal point, flexible	0.2 mm² ... 6 mm²
Conductor cross-section, flexible [AWG]	24 ... 10
Stripping length	10.00 mm

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP65 (in accordance with DIN EN 60529: Complete touch protection, dust cannot enter, spray water from any direction)
Impact strength	IK10 (in accordance with IEC 62262: Impact energy of 20 J, corresponds to 5 kg from a height of 40 cm)
Ambient temperature (operation)	-40 °C ... 70 °C (>50°C derating)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Altitude	2000 m
Permissible humidity (operation)	10 % ... 95 % (non-condensing)

## Standards and regulations

Other resistance	UV-resistant in accordance with UL746C, f1 listing/rating (Outdoor housing, subject to 1,000 hour xenon weather testing, 7-day water submergence test)
	Resistant to salt spray in accordance with IEC 60068-2-11 (96 h in 5% salt spray)

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Standards/regulations	IEC 62444
Standard designation	Strain relief
Standards/regulations	IEC 61249-2-21
Standard designation	Halogen-free (housing, bromine: <900 ppm, chlorine: <900 ppm, total halogen content: <1,500 ppm)
Standards/regulations	DIN EN 45545-2, requirement set R22, hazard level HL3
Standard designation	Fire protection

## Approvals

### CE

Certificate	CE-compliant
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### UL, USA/Canada

Identification	Listed
	UL 61010-1, 3rd Edition
	UL 61010-2-201, 2nd Edition
	CAN/CSA C22.2 No. 61010-1-12
	CSA C22.2 No. 61010-2-201:18

### Corrosive gas test

Identification	ISA-S71.04-1985 G3 Harsh Group A
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## EMC data

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Noise immunity	EN 61000-6-2

### Noise emission

Standards/regulations	EN 61000-6-4, Class B, domain of use: residential and small commercial
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### Electrostatic discharge

Standards/regulations	EN 61000-4-2
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### Electrostatic discharge

Contact discharge	± 6 kV
Discharge in air	± 8 kV
Indirect discharge	± 6 kV
Comments	Criterion B

### Electromagnetic HF field

Standards/regulations	EN 61000-4-3
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### Electromagnetic HF field

Frequency range	80 MHz ... 3 GHz (80% amplitude modulation with 1 kHz)
Field intensity	10 V/m
Comments	Criterion A

### Fast transients (burst)

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Standards/regulations	EN 61000-4-4
Fast transients (burst)	
Input	$\pm 2.2$ kV (1 minute)
Signal	$\pm 2.2$ kV (1 minute)
Comments	Criterion B
Surge current load (surge)	
Standards/regulations	EN 61000-4-5
Surge current load (surge)	
Input	$\pm 1$ kV (AC supply, line to line)
	$\pm 2$ kV (AC supply, line to ground)
Conducted interference	
Standards/regulations	EN 61000-4-6
Conducted interference	
Frequency range	0.15 MHz ... 80 MHz (80% amplitude modulation with 1 kHz)
Comments	Criterion A
Voltage	10 V
Emitted interference	
Standards/regulations	EN 61000-6-4
Comments	Class B, domain of use: residential and small commercial
Criteria	
Criterion A	Normal operating behavior within the specified limits.
Criterion B	Temporary impairment to operational behavior that is corrected by the device itself.

## System properties

Functionality	
Basic functions	Store-and-forward switch, complies with IEEE 802.3

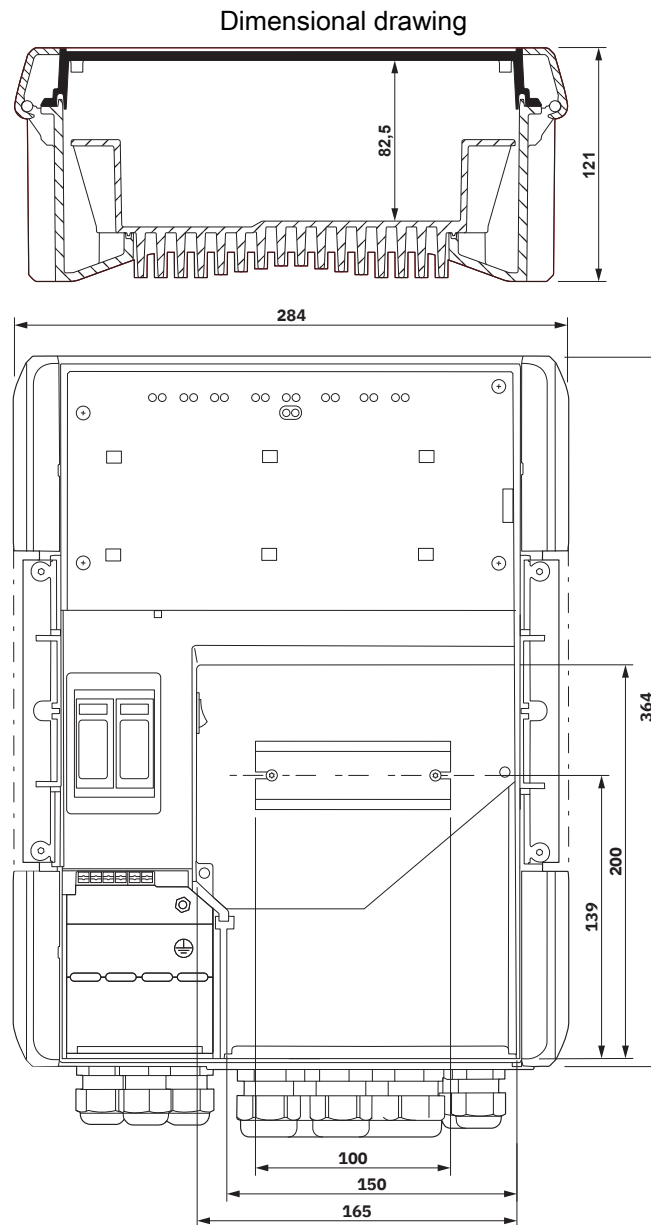
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## Drawings



## Dimensions



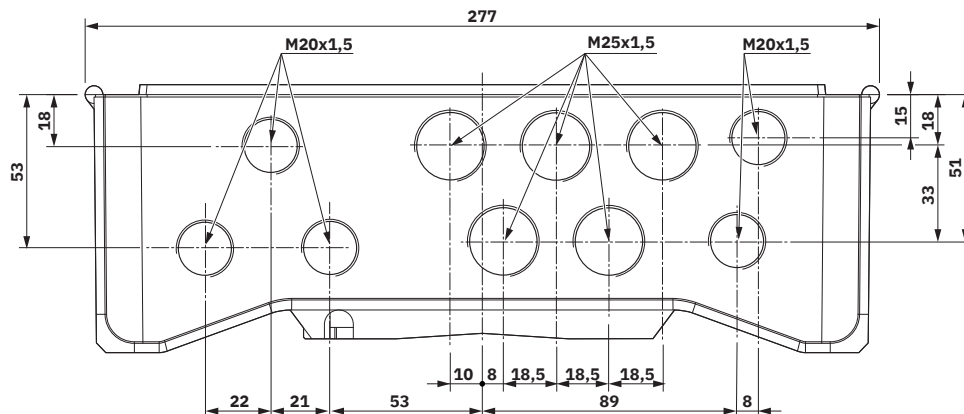
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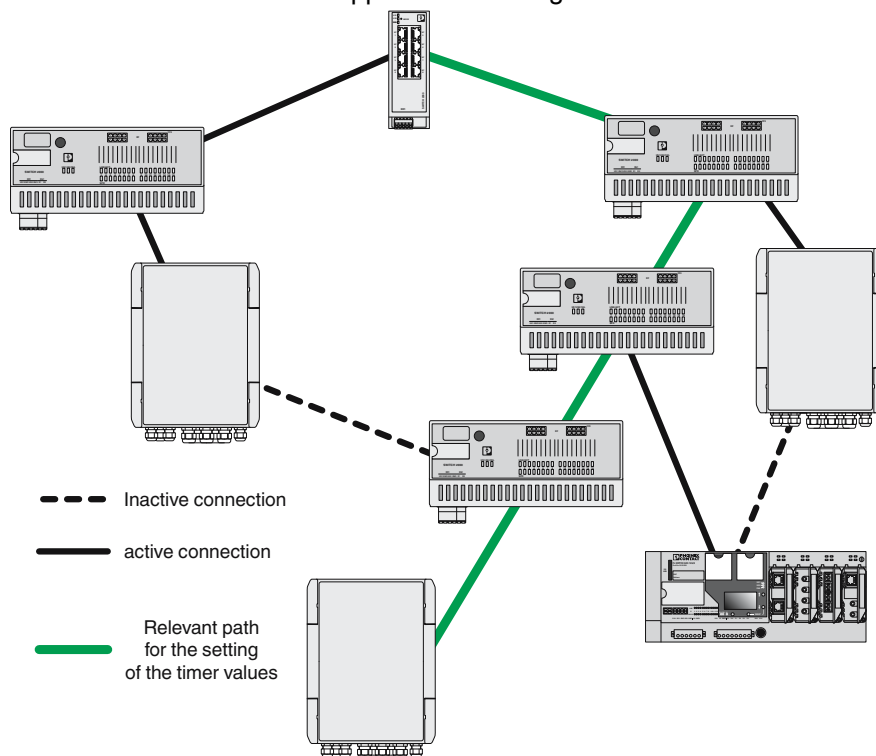


Dimensional drawing



Underside dimensions

Application drawing



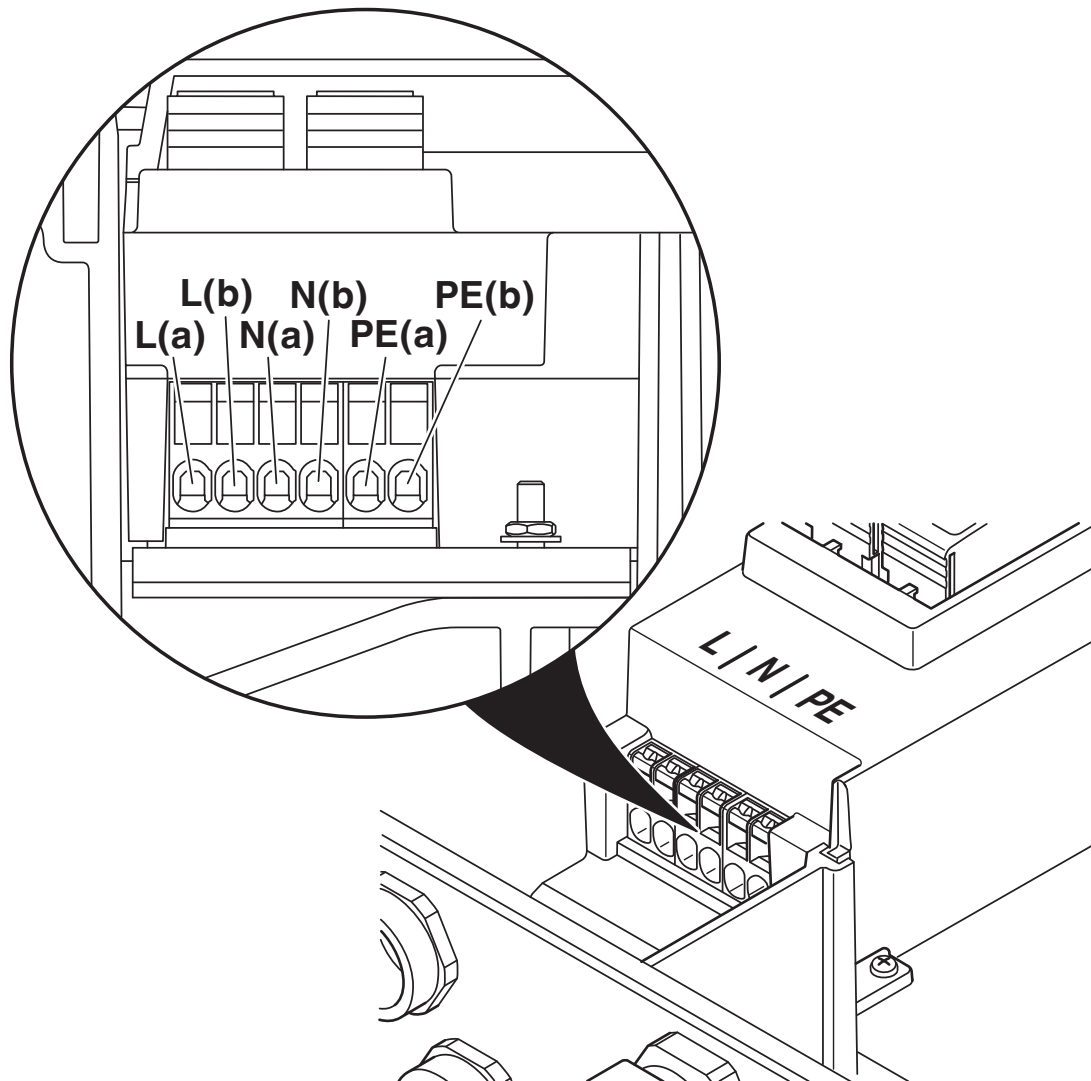
Redundancy via RSTP

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Connection diagram



Connecting the supply voltage

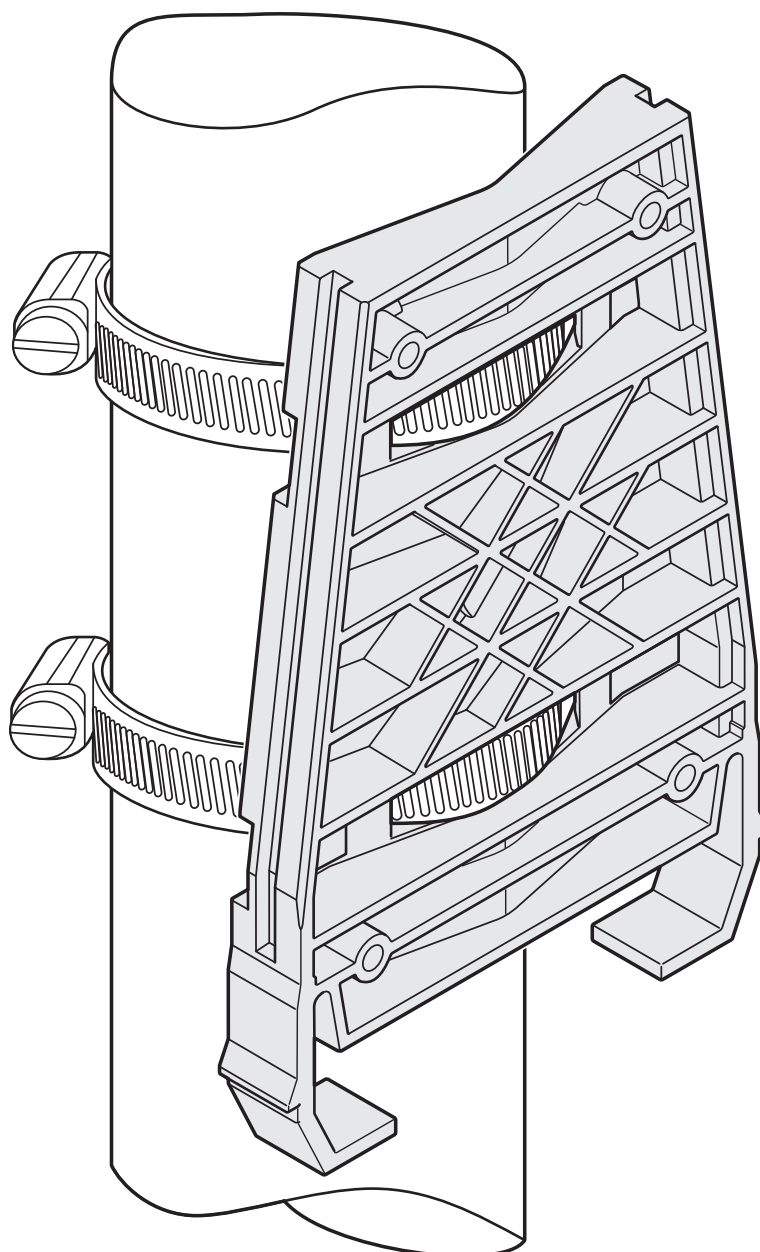
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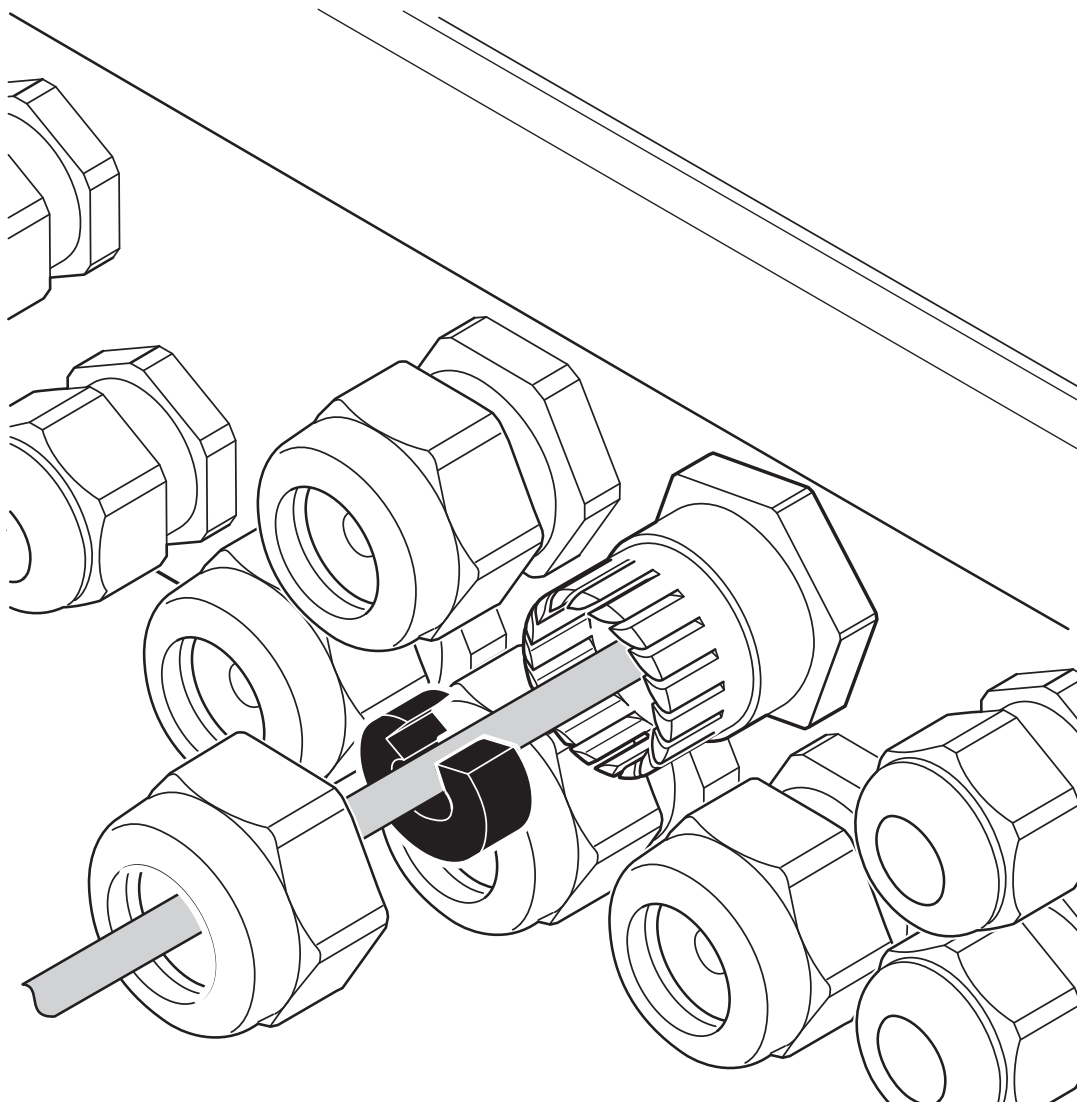


Schematic diagram



Mast mounting

Schematic diagram



Cable gland

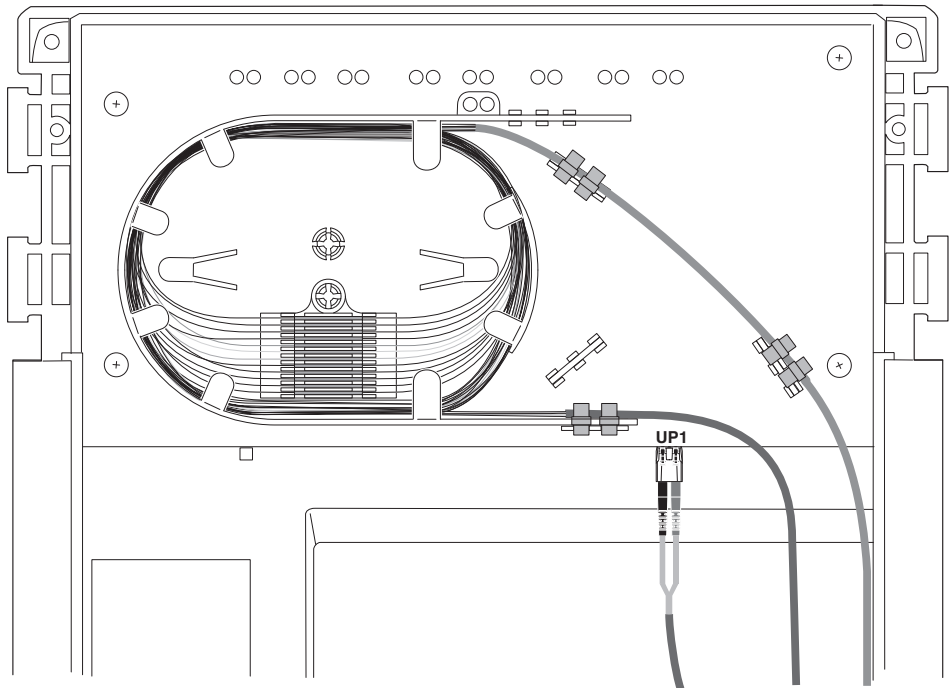
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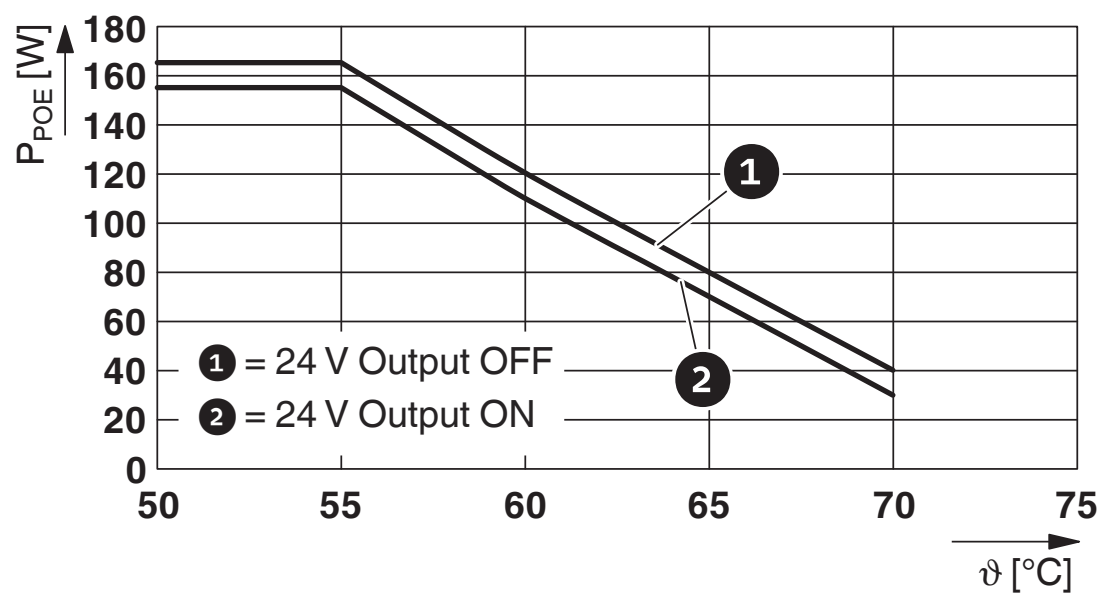
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Schematic diagram



Splice tray

Diagram



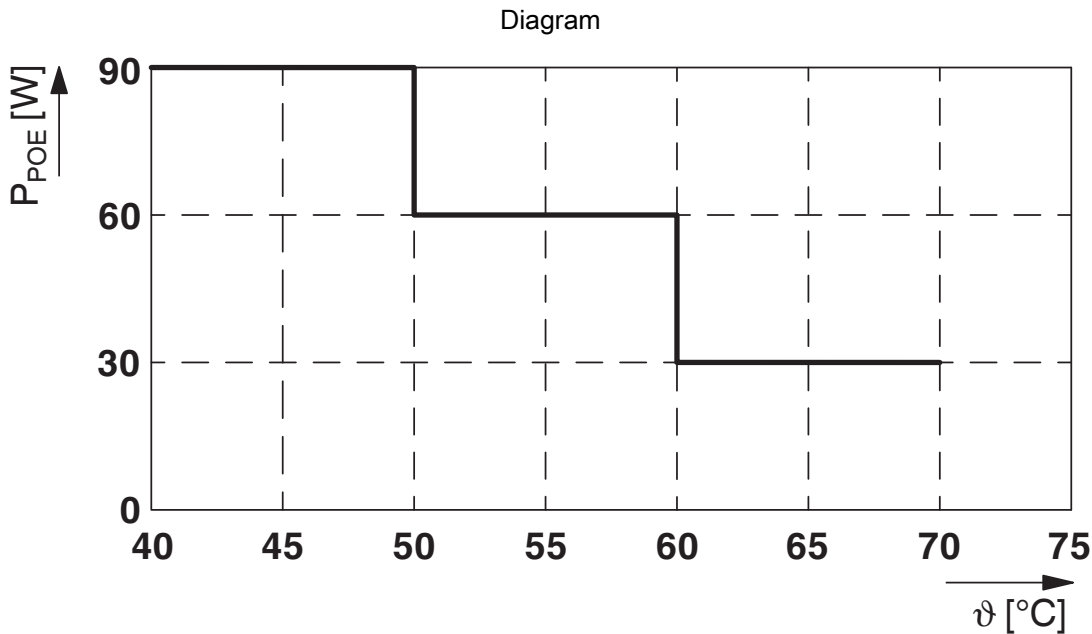
Derating (PoE power total)

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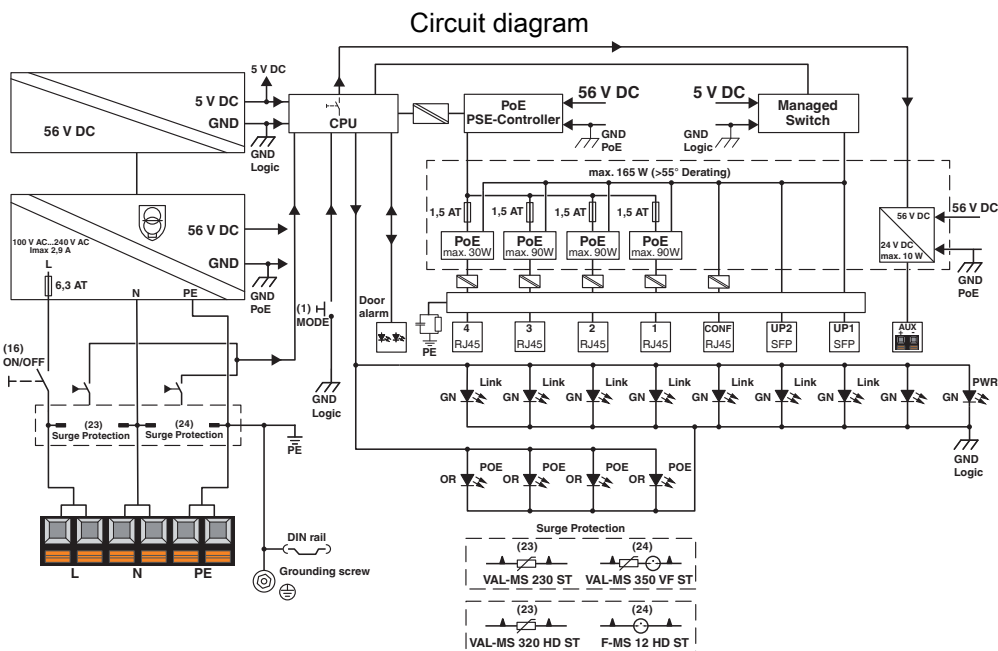


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Derating per port



Basic circuit diagram

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## Approvals

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**cULus Listed**

Approval ID: E238705

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## Classifications

### ECLASS

ECLASS-13.0	27180590
ECLASS-15.0	27180590

### ETIM

ETIM 9.0	EC000261
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### UNSPSC

UNSPSC 21.0	31261500
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(a)-I, 6(c), 7(a), 7(c)-I

### China RoHS

Environment friendly use period (EFUP)	EFUP-25
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	Diboron trioxide(CAS: 1303-86-2)
	Lead monoxide (lead oxide)(CAS: 1317-36-8)
	Lead(CAS: 7439-92-1)
	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol(CAS: 119-47-1)
	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)(CAS: 3147-75-9)
SCIP	ca34f1d7-f8c8-41f7-851c-5a5cfcdaa3f3

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Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)