

SCX 2POE 2LX - Industrial Ethernet Switch



1108543

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View into the opened housing

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

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| | |
|--------------------------------------|---------------|
| 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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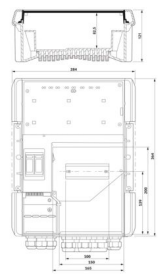


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Technical data

Dimensions

| | |
|---------------------|--|
| Dimensional drawing |  |
| Width | 284 mm |
| Height | 364 mm |
| Depth | 121 mm |

Notes

Note on application

| | |
|---------------------|-------------------------|
| Note on application | Only for industrial use |
|---------------------|-------------------------|

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 |
|---------------|---------------------------------|

Interfaces

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

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 mm ² ... 1.5 mm ² |
| Single-wire/terminal point, flexible | 0.2 mm ² ... 1.5 mm ² |
| Conductor cross-section, flexible, with ferrule, with plastic sleeve | 0.25 mm ² ... 0.75 mm ² (Stripping length 8 mm) |
| Conductor cross-section, flexible, with ferrule, without plastic sleeve | 0.25 mm ² ... 1.5 mm ² (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%) |

Insulation characteristics

| | |
|------------------|--|
| Protection class | I (Protective grounding of all conductive housing parts) |
|------------------|--|

Insulation characteristics

| | |
|----------------------|--|
| Overvoltage category | III (With protection modules plugged in) |
| | II (Without protection modules) |

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| | |
|------------------|---|
| 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 |
|-----------------|--|

Functions

| | |
|----------------------|---|
| Diagnostic functions | RMON History |
| | LLDP (Link Layer Discovery Protocol) |
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|----------------------|--|
| | 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 |

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) |
|----------------------|--|

Connection data

Supply

| | |
|---|---|
| Connection method | Push-in spring connection |
| Conductor cross-section, flexible, with ferrule, without plastic sleeve | 0.2 mm ² ... 4 mm ² |
| Conductor cross-section, flexible, with ferrule, with plastic sleeve | 0.2 mm ² ... 4 mm ² |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm ² ... 1.5 mm ² |
| Single conductor/terminal point, rigid | 1 mm ² ... 6 mm ² |
| Single-wire/terminal point, flexible | 0.2 mm ² ... 6 mm ² |
| 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) |
| Standards/regulations | IEC 62444 |

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| | |
|-----------------------|--|
| 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 |
|-------------|--------------|

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 |
|----------------|----------------------------------|

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 |
|-----------------------|--|

Electrostatic discharge

| | |
|-----------------------|--------------|
| Standards/regulations | EN 61000-4-2 |
|-----------------------|--------------|

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 |
|-----------------------|--------------|

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)

| | |
|-----------------------|--------------|
| Standards/regulations | EN 61000-4-4 |
|-----------------------|--------------|

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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 | ± 1 kV (AC supply, line to line) |
| | ± 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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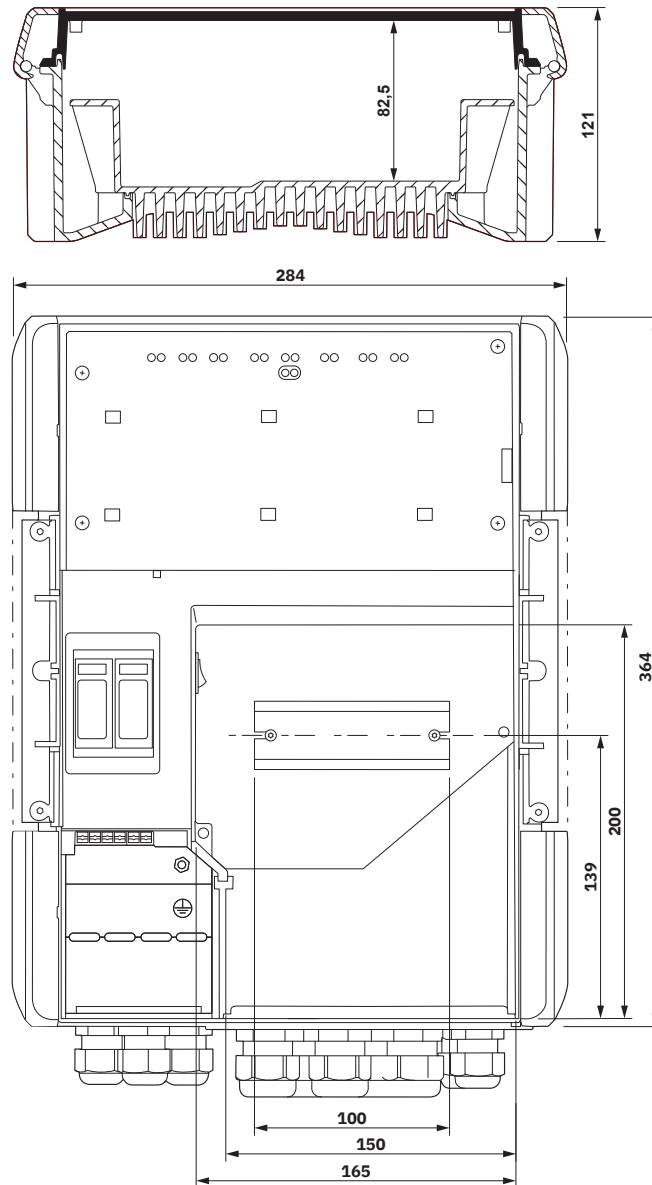


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Drawings

Dimensional drawing



Dimensions

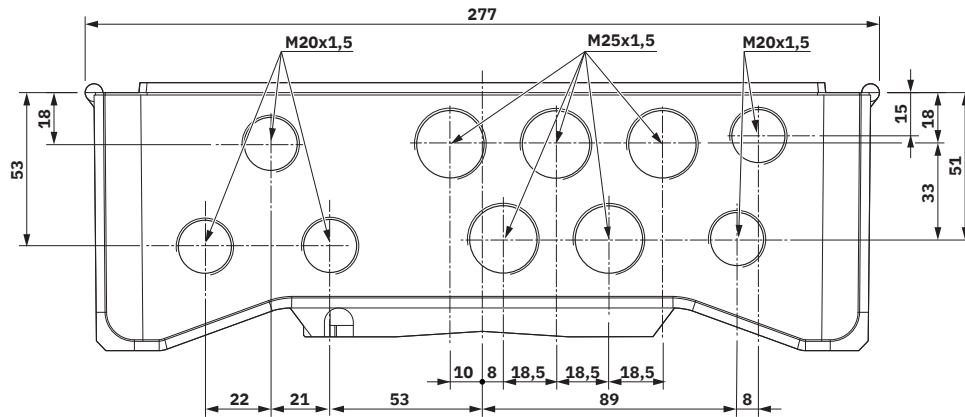
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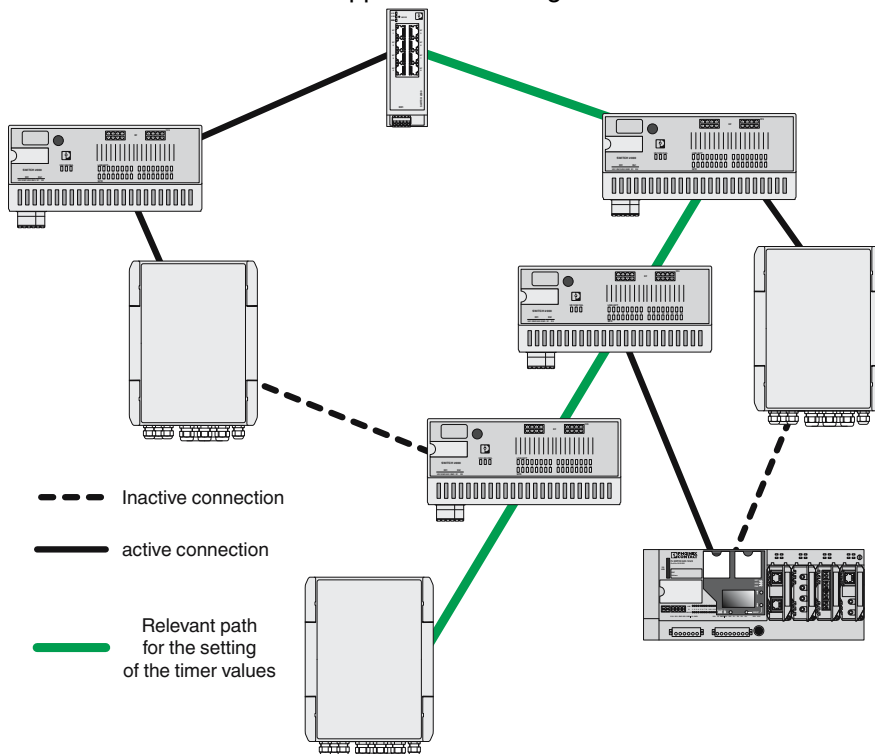
<https://www.phoenixcontact.com/us/products/1108543>

Dimensional drawing



Underside dimensions

Application drawing



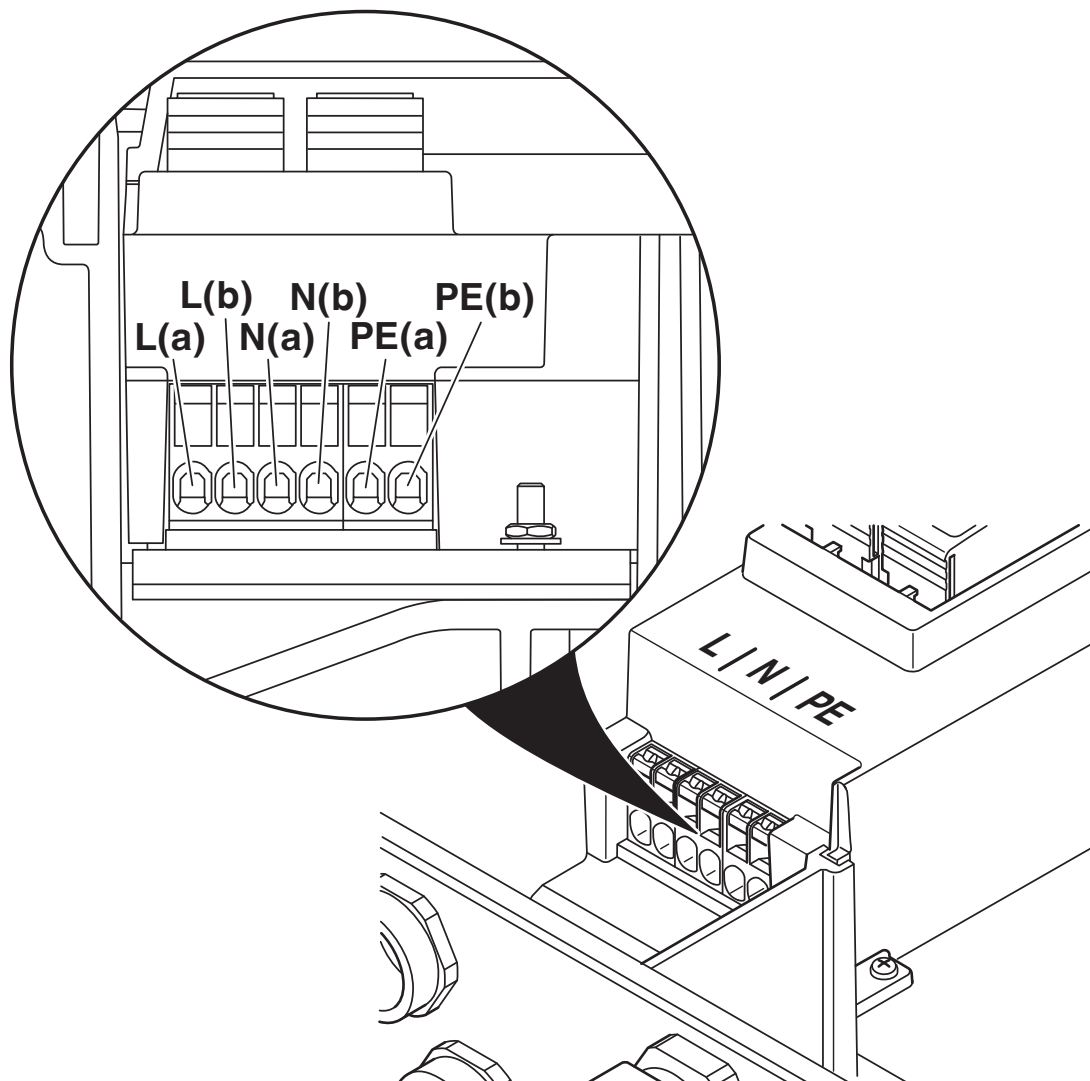
Redundancy via RSTP

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Connection diagram



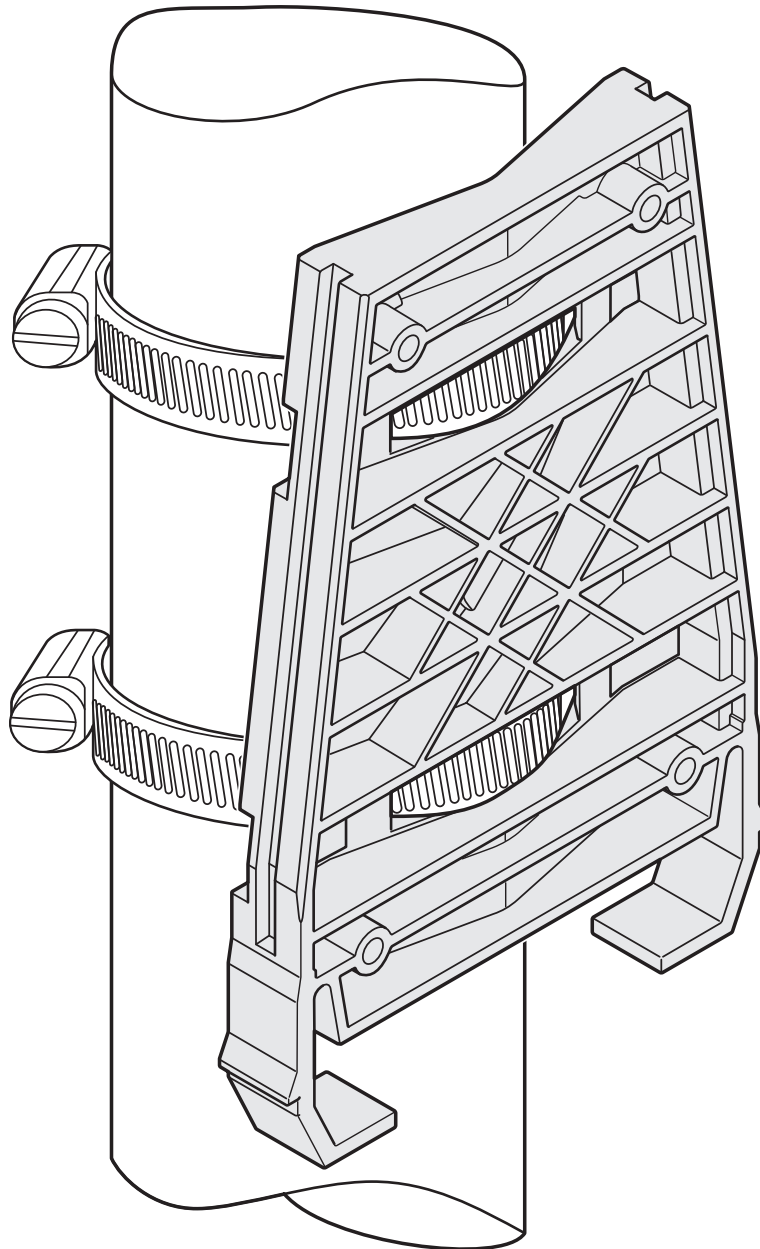
Connecting the supply voltage

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Schematic diagram



Mast mounting

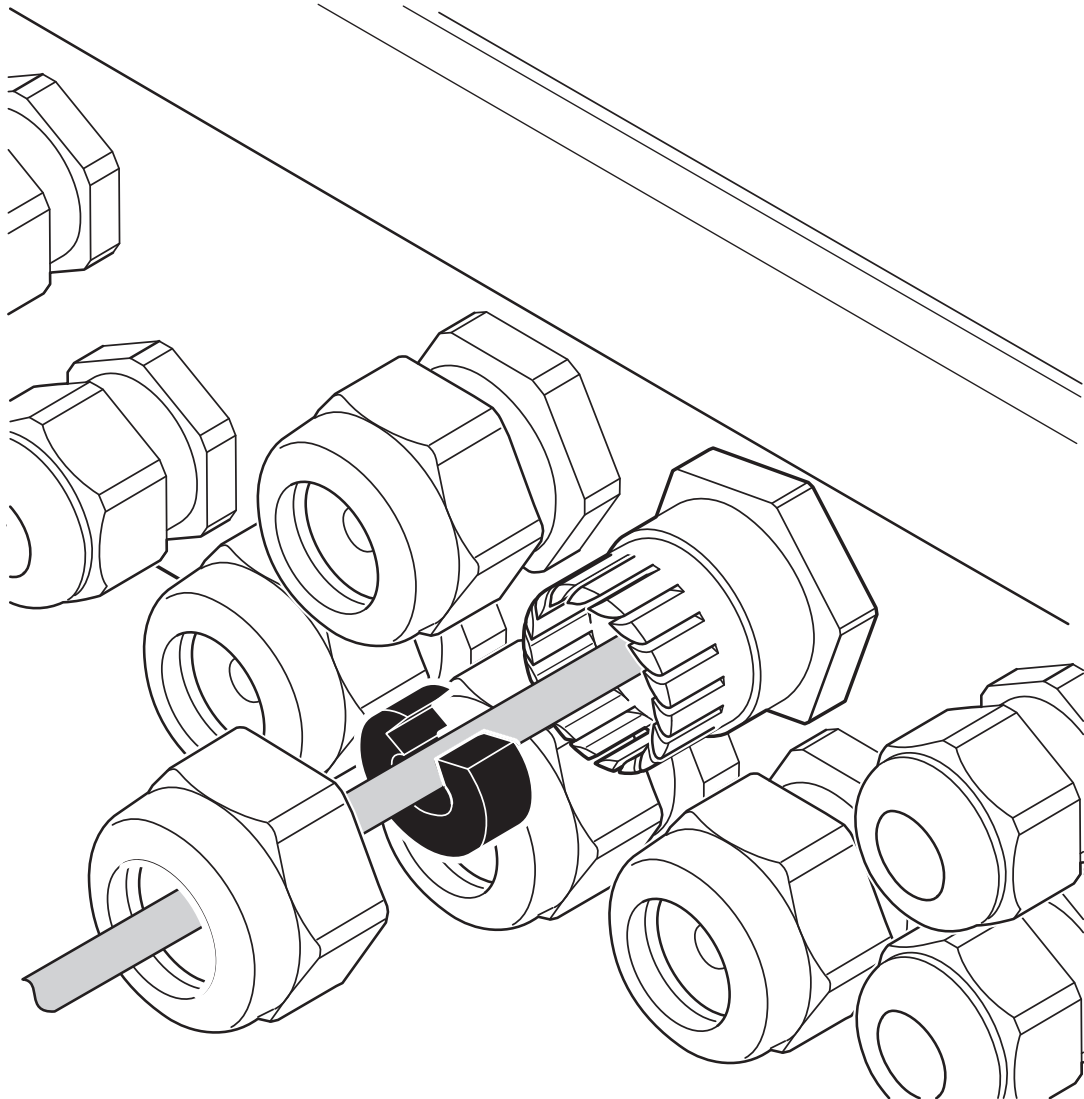
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Schematic diagram



Cable gland

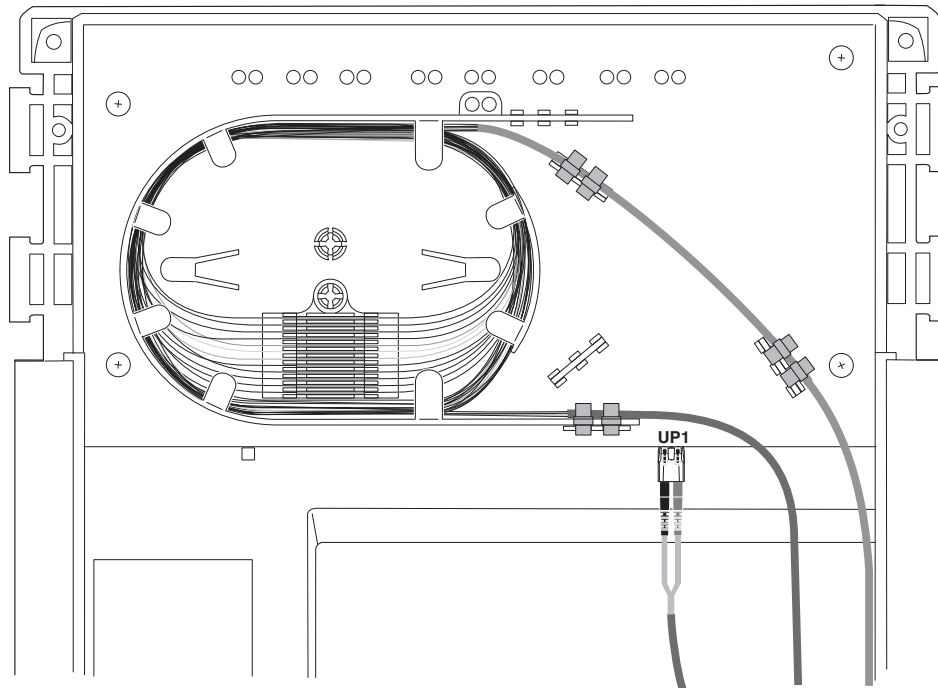
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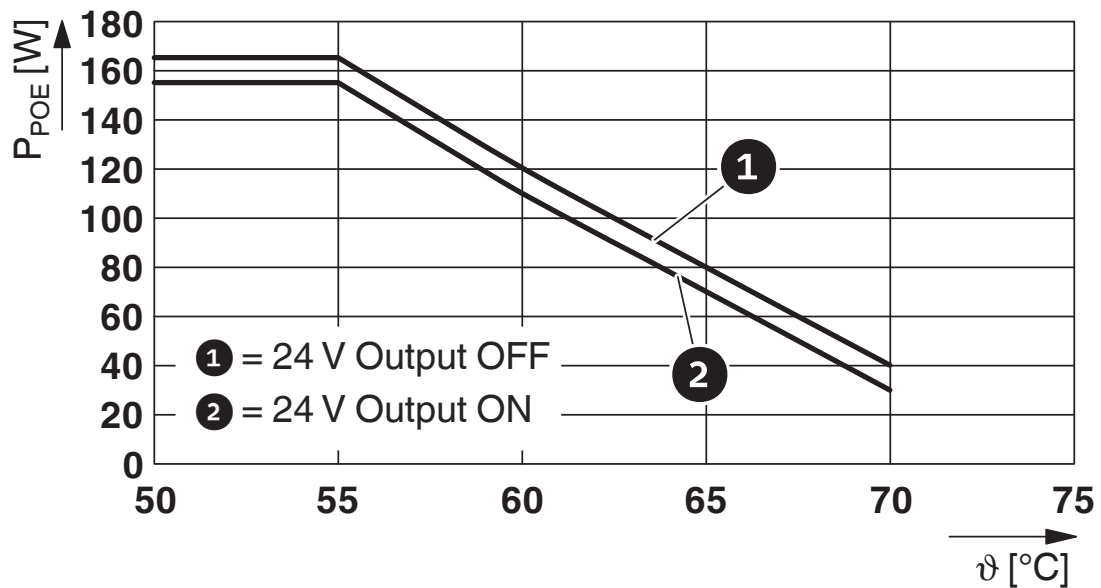
<https://www.phoenixcontact.com/us/products/1108543>

Schematic diagram



Splice tray

Diagram



Derating (PoE power total)

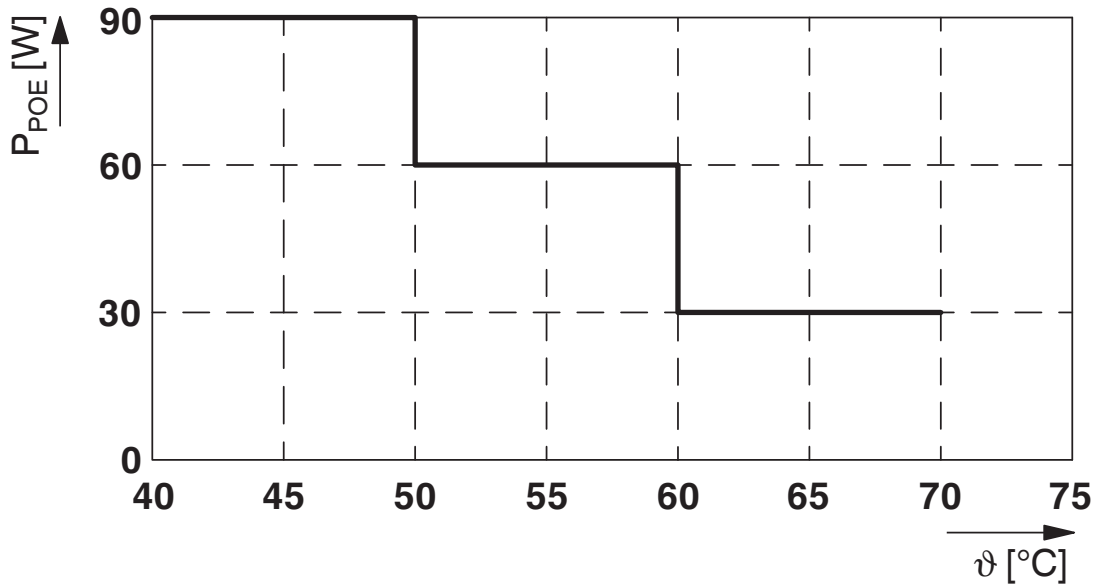
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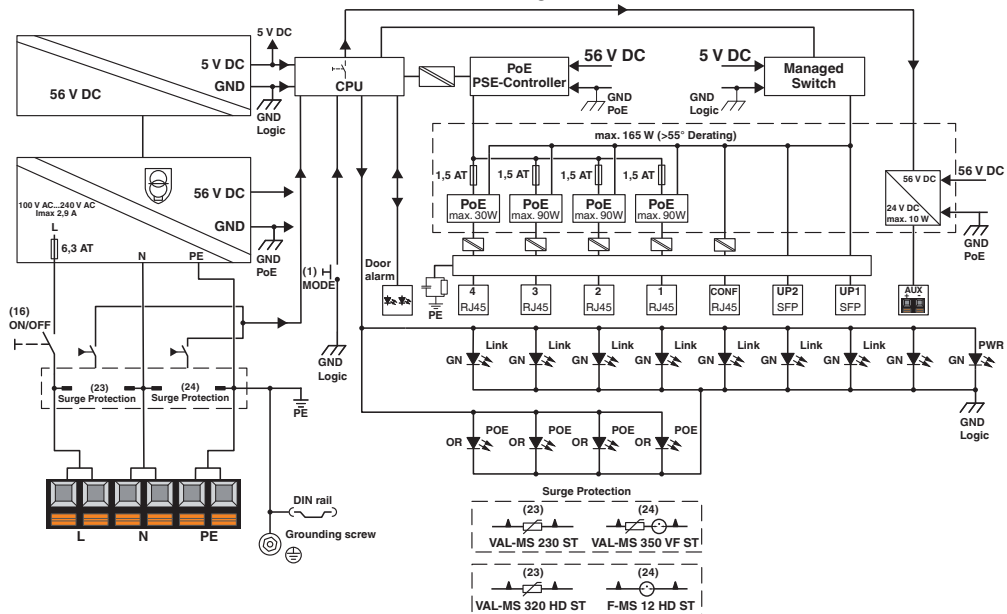
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Diagram



Derating per port

Circuit diagram



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 | 19170401 |

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC000261 |
|-----------|----------|

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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