Industrial Ethernet Switch - SCX 4POE 2LX - 1102626

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Smart Camera Box to connect PoE end devices, four PoE ports, two uplink ports (SFP slots), Managed Switch, integrated surge protection and splice tray, supply voltage 100 ... 240 V AC, wall or mast mounting

Product Description

The Smart Camera Box is used to connect PoE end devices such as IP cameras to a video server. You can use the Smart Camera Box to supply voltage to PoE end devices and additional external devices.
The Smart Camera Box is a manageable outdoor PoE switch with a power supply, a wiring space for the AC voltage supply, replaceable overvoltage protection modules, and an area with an integrated 24 V DC supply and a DIN rail for mounting additional devices.
The Smart Camera Box integrates the functions of conventional connection boxes equipped with standard DIN rail devices into a single compact device. This saves you planning and installation time.
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

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	4 055626 964324
GTIN	4055626964324
Weight per Piece (excluding packing)	5,000.000 g
Custom tariff number	85176200

Industrial Ethernet Switch - SCX 4POE 2LX - 1102626

Country of origin	Germany

Technical data

Dimensions

Width	284 mm
Height	364 mm
Depth	121 mm

Ambient conditions

Ambient temperature (operation)	-40 °C ... 70 °C (>50°C derating)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	10 % ... 95 % (non-condensing)
Altitude	2000 m
Degree of protection	IP65 (in accordance with DIN EN 60529: Complete touch protection, dust cannot enter, spray water from any direction)
Protection class	I (Protective grounding of all conductive housing parts)
Noise immunity	EN 61000-6-2
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

General

Thread type, cable screw connection	5x M20, 5x M25
	in accordance with UL: 2x M20, 5x M25
Tightening torque	2 Nm M20
	4 Nm M20, UL
	3.5 Nm M25
	5 Nm M25, UL
External cable diameter	6 mm ... 12 mm (M20)
	6 mm ... 10 mm (M25)
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Noise emission	EN 61000-6-4, Class B, domain of use: residential and small commercial
Mounting type	Wall mounting
Net weight	4300 g
Material	Polycarbonate PC (Housing)
	Polyamide (Cable gland)
	Neoprene (Cable gland seal, black)
Color	light gray
MTTF	450 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)
	228 Years (SN 29500 standard, temperature 40°C, operating cycle 34.25%)
	96 Years (SN 29500 standard, temperature 40°C, operating cycle 100%)

Industrial Ethernet Switch - SCX 4POE 2LX - 1102626

Technical data

Power supply

Supply voltage range	100 V AC ... 240 V AC -15 % ... +10 % (Single-phase)
Power supply system	TN
	TT
Protection	Miniature circuit breaker, 6 A ... 16 A, characteristics B, C, D, K
	Miniature circuit breaker/fuse
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
Conductor cross section flexible max.	6.00 mm²
Conductor cross section flexible min.	0.20 mm²
Conductor cross section solid max.	6.00 mm²
Conductor cross section solid min.	1.00 mm²
Max. AWG conductor cross section, flexible	10
Min. AWG conductor cross section, flexible	24
Stripping length	10 mm

Interfaces

Interface 1	Ethernet / Fast Ethernet / Gigabit Ethernet
Interface	PoE standard IEEE 802.3bt, at, af
No. of ports	4
Connection method	RJ45 jack
Note on the connection method	Auto negotiation and autocrossing
Transmission medium	Copper
Transmission length	100 m (per segment)
Basic functions	Store-and-forward switch, complies with IEEE 802.3
Transmission speed	10/100/1000 Mbps
Maximum output power	165 W (>55°C derating)
	155 W (If switching output is active, >55°C derating)
	90 W (per port POE1...3, >50°C derating)
Interface 2	Ethernet / Fast Ethernet / Gigabit Ethernet
Interface	Uplink ports
No. of ports	2
Connection method	SFP ports
Note on the connection method	The SFP modules are available as accessories
Transmission medium	depending on the SFP module used
Transmission length	< 80 km (depending on the SFP module used)

Industrial Ethernet Switch - SCX 4POE 2LX - 1102626

Technical data

Interfaces

Interface 3	Configuration interface
No. of ports	1
Connection method	RJ45
Interface 4	Switching output
Interface	Configuration via web-based management
No. of ports	1
Connection method	Push-in spring connection
Conductor cross section flexible max.	1.5 mm²
Conductor cross section flexible min.	0.2 mm²
Conductor cross section solid max.	1.5 mm²
Conductor cross section solid min.	0.2 mm²
Conductor cross section AWG max.	16
Conductor cross section AWG min.	24
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² ... 1.5 mm² (Stripping length 8 mm)
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² ... 0.75 mm² (Stripping length 8 mm)
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 Camera Box)
Output current	300 mA (typical)

Function

Management	Web-based management (HTTP/HTTPS)
	SNMPv2/v3
	Command-line interface (Telnet, SSH)
Diagnostic functions	RMON History
	LLDP (Link Layer Discovery Protocol)
	SNMP traps
	N:1-Portmirroring
	ACD (Address Conflict Detection)
Filter functions	Port prioritization
	VLAN (up to 32 VLANs)
Redundancy	RSTP (Rapid Spanning Tree Protocol)
	Large Tree Support
	FRD (Fast Ring Detection)
Time synchronization	SNTP (Simple Network Time Protocol)
IP parameterization	DHCP client
	BootP
	Static IP address

Industrial Ethernet Switch - SCX 4POE 2LX - 1102626

Technical data

Function

Additional functions	Jumbo frames

Conformance/approvals

Designation	CE
Certificate	CE-compliant
Designation	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
Designation	Corrosive gas test
Identification	ISA-S71.04-1985 G3 Harsh Group A

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	1g
Type of test	Shock in acc. with EN 60068-2-27/IEC 60068-2-27
Test result	15g, 11 ms
Noise emission	EN 61000-6-4, Class B, domain of use: residential and small commercial
Noise immunity	EN 61000-6-2
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
Standards/regulations	EN 61000-4-2
Contact discharge	± 6 kV
Indirect discharge	± 6 kV
Standards/regulations	EN 61000-4-3
Frequency range	80 MHz ... 3 GHz (80% amplitude modulation with 1 kHz)
Standards/regulations	EN 61000-4-4
Comments	Criterion B
Standards/regulations	EN 61000-4-5
	EN 61000-6-4
	EN 61000-4-6
Frequency range	0.15 MHz ... 80 MHz (80% amplitude modulation with 1 kHz)
Conducted noise emission	EN 61000-6-3 Class B, domain of use: residential and small commercial
Standards/regulations	IEC 62444
Rated insulation voltage	3 kV AC (Input / output, IEC/EN 60950-1)

Industrial Ethernet Switch - SCX 4POE 2LX - 1102626

Technical data

Standards and Regulations

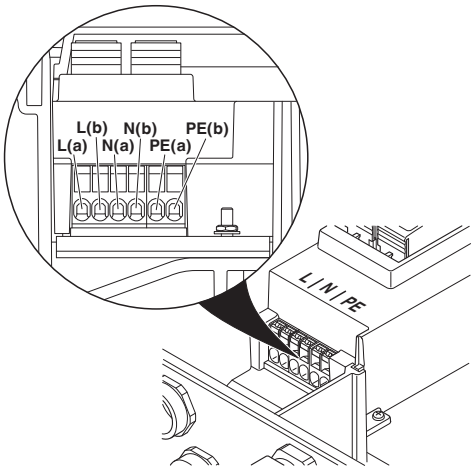
Pollution degree	2
Overvoltage category	III (With protection modules plugged in)
	II (Without protection modules)
Standards/regulations	IEC 61249-2-21

Environmental Product Compliance

REACh SVHC	Lead 7439-92-1

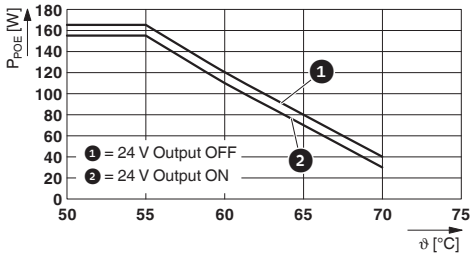
Drawings

Connection diagram



Connecting the supply voltage

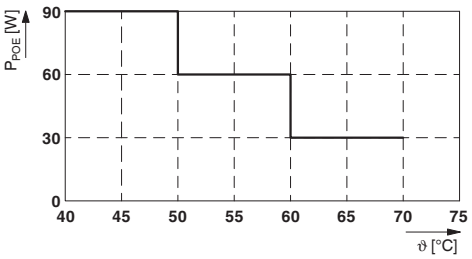
Diagram



Derating (PoE power total)

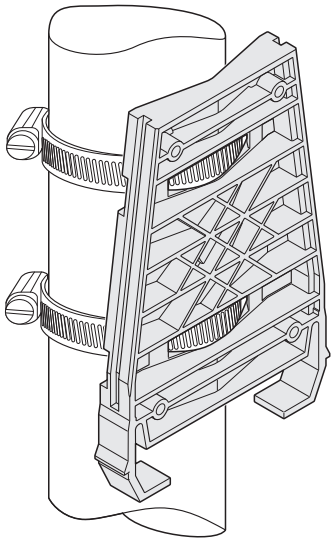
Industrial Ethernet Switch - SCX 4POE 2LX - 1102626

Diagram



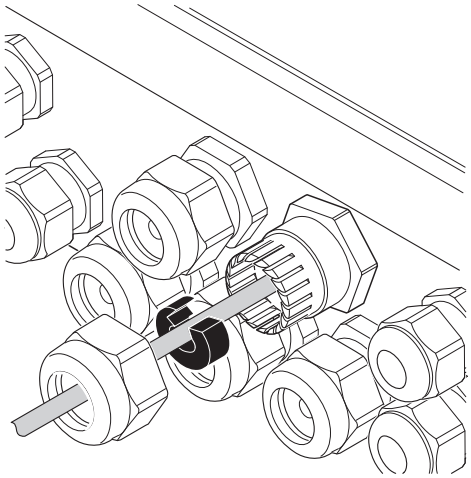
Derating per port

Schematic diagram



Mast mounting

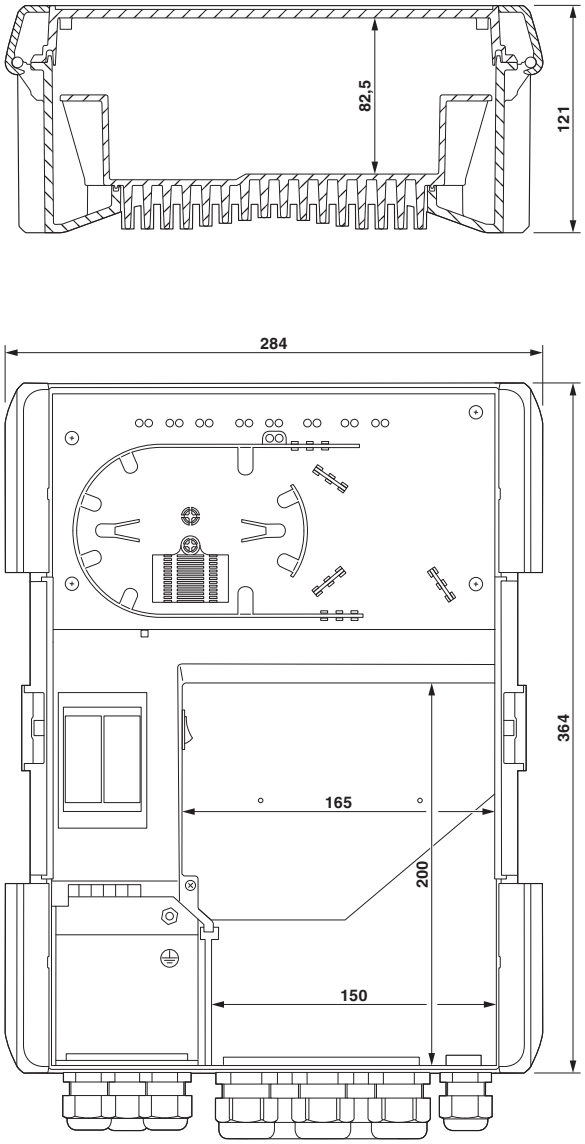
Schematic diagram



Cable gland

Industrial Ethernet Switch - SCX 4POE 2LX - 1102626

Dimensional drawing



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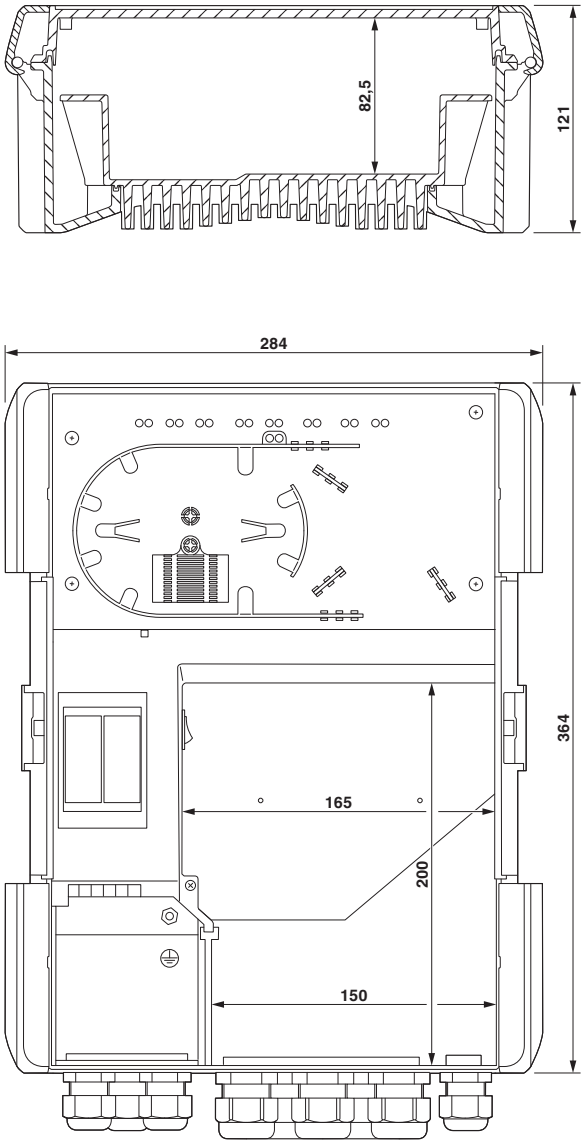
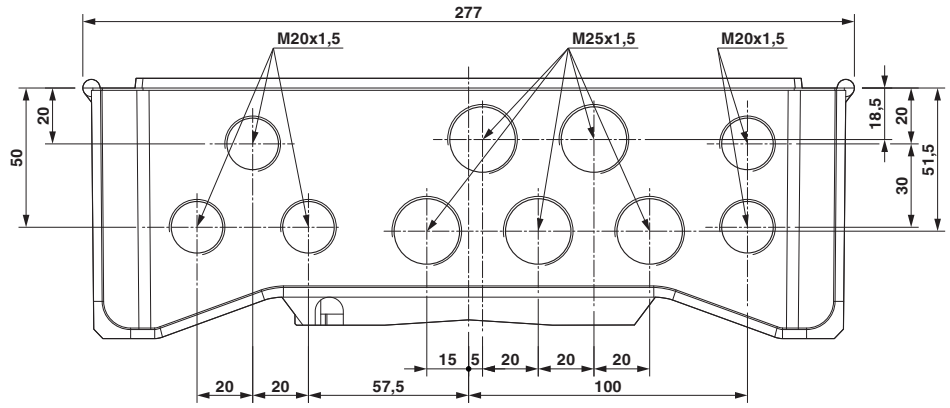
Dimensional drawing



Dimensional drawing

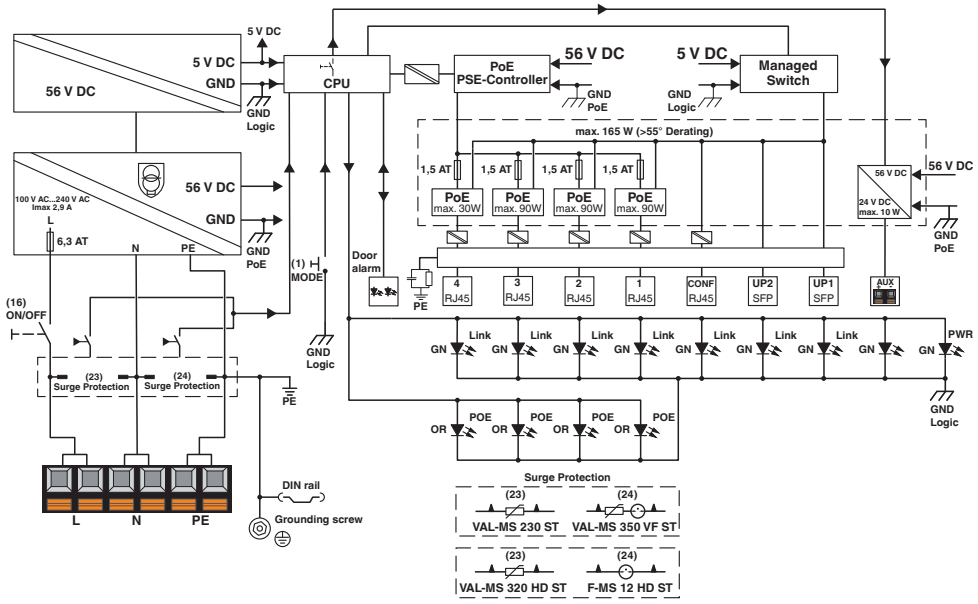
Industrial Ethernet Switch - SCX 4POE 2LX - 1102626

Dimensional drawing



Dimensional drawing

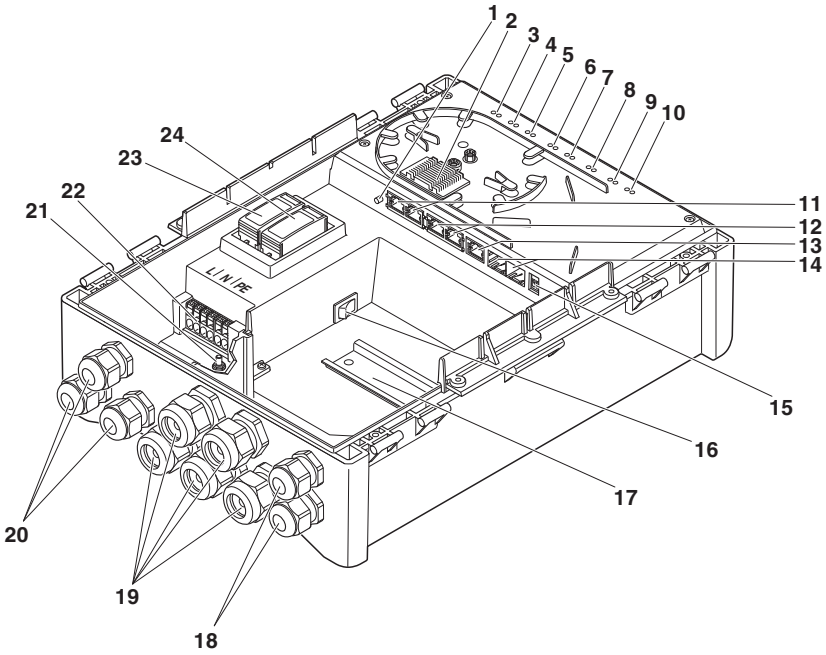
Circuit diagram



Basic circuit diagram

Industrial Ethernet Switch - SCX 4POE 2LX - 1102626

Schematic diagram



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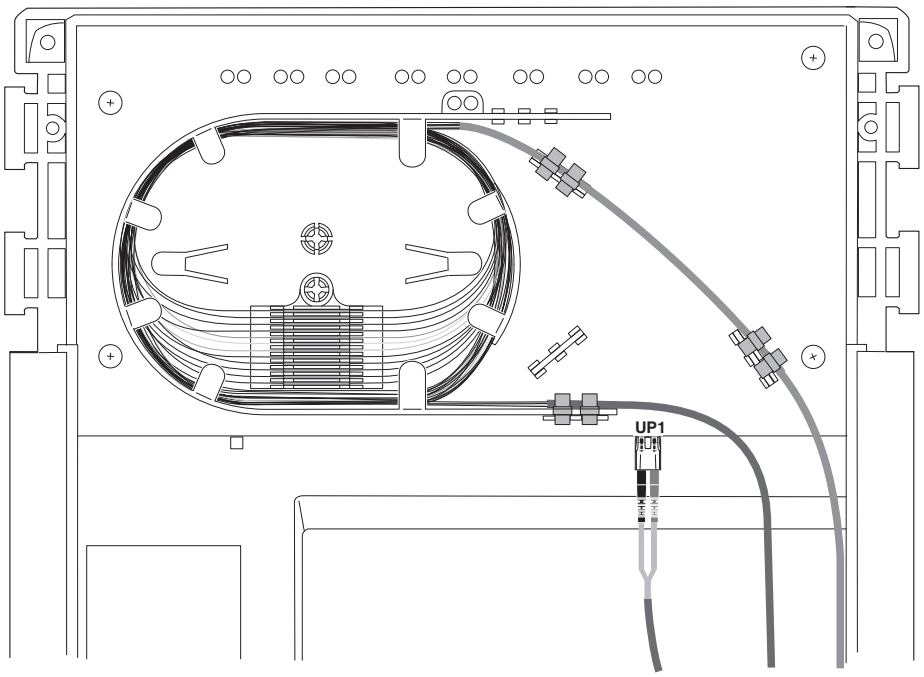
Schematic diagram



Splice tray

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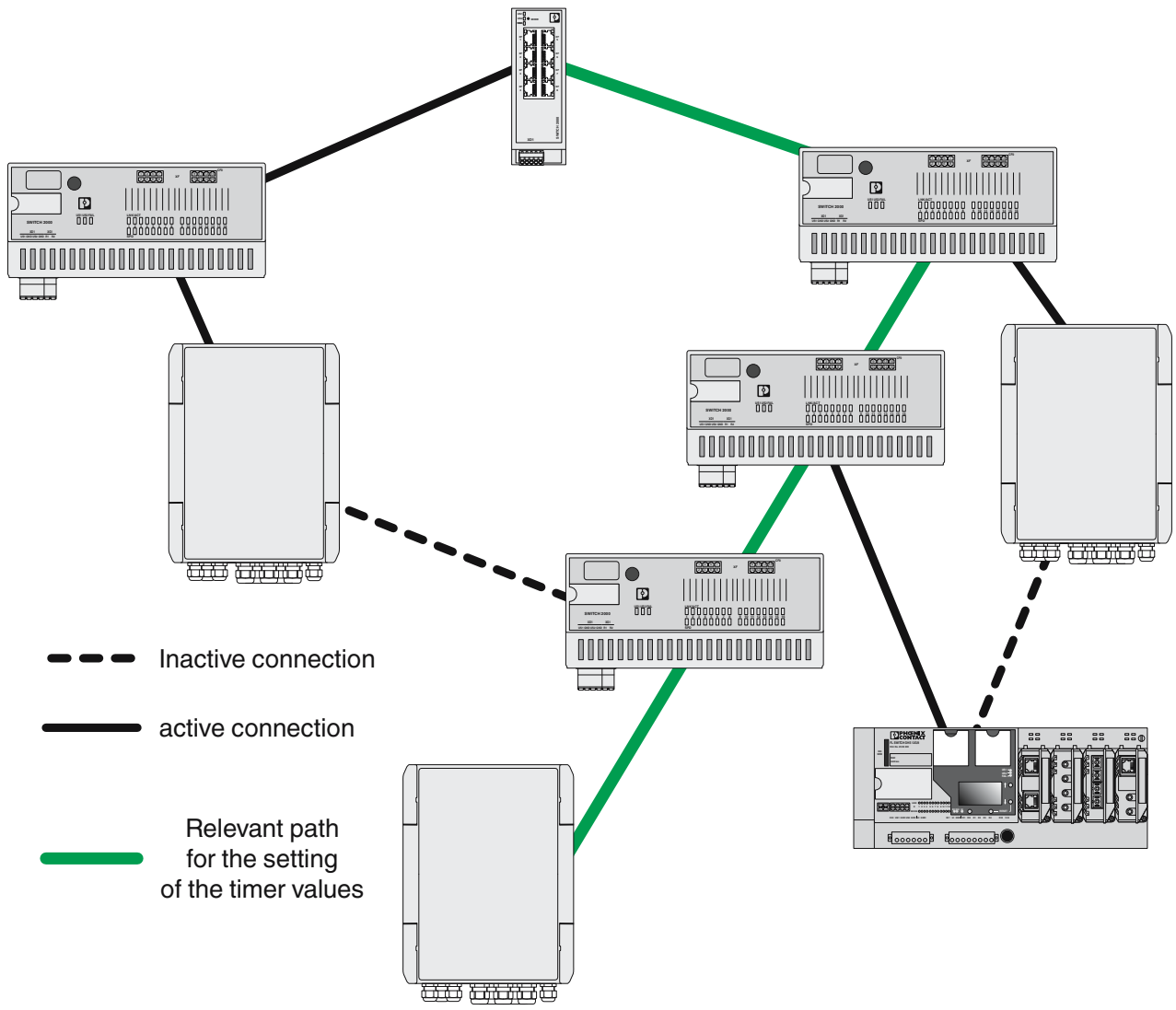
Application drawing



Industrial Ethernet Switch - SCX 4POE 2LX - 1102626

Classifications

eCl@ss

eCl@ss 10.0.1	27180590
eCl@ss 11.0	27180590
eCl@ss 9.0	27180590

ETIM

ETIM 7.0	EC000261

Approvals

Approvals

Approvals

cULus Listed

Ex Approvals

Approval details

cULus Listed	c UL us LISTED	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705

Industrial Ethernet Switch - SCX 4POE 2T - 1108542

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Smart Camera Box to connect PoE end devices, four PoE ports, two uplink ports (RJ45), integrated Managed Switch and surge protection, supply voltage 100 ... 240 V AC, wall or mast mounting

Product Description

The Smart Camera Box is used to connect PoE end devices such as IP cameras to a video server. You can use the Smart Camera Box to supply voltage to PoE end devices and additional external devices.
The Smart Camera Box is a manageable outdoor PoE switch with a power supply, a wiring space for the AC voltage supply, replaceable overvoltage protection modules, and an area with an integrated 24 V DC supply and a DIN rail for mounting additional devices.
The Smart Camera Box integrates the functions of conventional connection boxes equipped with standard DIN rail devices into a single compact device. This saves you planning and installation time.
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

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	4 063151 015114
GTIN	4063151015114
Weight per Piece (excluding packing)	5,020.000 g
Custom tariff number	85176200
Country of origin	Germany

Industrial Ethernet Switch - SCX 4POE 2T - 1108542

Technical data

Dimensions

Width	284 mm
Height	364 mm
Depth	121 mm

Ambient conditions

Ambient temperature (operation)	-40 °C ... 70 °C (>50°C derating)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	10 % ... 95 % (non-condensing)
Altitude	2000 m
Degree of protection	IP65 (in accordance with DIN EN 60529: Complete touch protection, dust cannot enter, spray water from any direction)
Protection class	I (Protective grounding of all conductive housing parts)
Noise immunity	EN 61000-6-2
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

General

Thread type, cable screw connection	5x M20, 5x M25
	in accordance with UL: 2x M20, 5x M25
Tightening torque	2 Nm M20
	4 Nm M20, UL
	3.5 Nm M25
	5 Nm M25, UL
External cable diameter	6 mm ... 12 mm (M20)
	6 mm ... 10 mm (M25)
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Noise emission	EN 61000-6-4, Class B, domain of use: residential and small commercial
Mounting type	Wall mounting
Net weight	4300 g
Material	Polycarbonate PC (Housing)
	Polyamide (Cable gland)
	Neoprene (Cable gland seal, black)
Color	light gray
MTTF	441 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)
	224 Years (SN 29500 standard, temperature 40°C, operating cycle 34.25%)
	92 Years (SN 29500 standard, temperature 40°C, operating cycle 100%)

Power supply

Industrial Ethernet Switch - SCX 4POE 2T - 1108542

Technical data

Power supply

Supply voltage range	100 V AC ... 240 V AC -15 % ... +10 % (Single-phase)
Power supply system	TN
	TT
Protection	Miniature circuit breaker, 6 A ... 16 A, characteristics B, C, D, K
	Miniature circuit breaker/fuse
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
Conductor cross section flexible max.	6.00 mm²
Conductor cross section flexible min.	0.20 mm²
Conductor cross section solid max.	6.00 mm²
Conductor cross section solid min.	1.00 mm²
Max. AWG conductor cross section, flexible	10
Min. AWG conductor cross section, flexible	24
Stripping length	10 mm

Interfaces

Interface 1	Ethernet / Fast Ethernet / Gigabit Ethernet
Interface	PoE standard IEEE 802.3bt, at, af
No. of ports	4
Connection method	RJ45 jack
Note on the connection method	Auto negotiation and autocrossing
Transmission medium	Copper
Transmission length	100 m (per segment)
Basic functions	Store-and-forward switch, complies with IEEE 802.3
Transmission speed	10/100/1000 Mbps
Maximum output power	165 W (>55°C derating)
	155 W (If switching output is active, >55°C derating)
	90 W (per port POE1...3, >50°C derating)
	30 W (POE4)
Interface 2	Ethernet / Fast Ethernet / Gigabit Ethernet
Interface	Uplink ports
No. of ports	2
Connection method	RJ45 jack
Transmission medium	Copper
Transmission length	100 m (per segment)

Industrial Ethernet Switch - SCX 4POE 2T - 1108542

Technical data

Interfaces

Interface 3	Configuration interface
No. of ports	1
Connection method	RJ45
Interface 4	Switching output
Interface	Configuration via web-based management
No. of ports	1
Connection method	Push-in spring connection
Conductor cross section flexible max.	1.5 mm²
Conductor cross section flexible min.	0.2 mm²
Conductor cross section solid max.	1.5 mm²
Conductor cross section solid min.	0.2 mm²
Conductor cross section AWG max.	16
Conductor cross section AWG min.	24
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² ... 1.5 mm² (Stripping length 8 mm)
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² ... 0.75 mm² (Stripping length 8 mm)
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 Camera Box)
Output current	300 mA (typical)

Function

Management	Web-based management (HTTP/HTTPS)
	SNMPv2/v3
	Command-line interface (Telnet, SSH)
Diagnostic functions	RMON History
	LLDP (Link Layer Discovery Protocol)
	SNMP traps
	N:1-Portmirroring
	ACD (Address Conflict Detection)
Filter functions	Port prioritization
	VLAN (up to 32 VLANs)
Redundancy	RSTP (Rapid Spanning Tree Protocol)
	Large Tree Support
	FRD (Fast Ring Detection)
Time synchronization	SNTP (Simple Network Time Protocol)
IP parameterization	DHCP client
	BootP
	Static IP address

Industrial Ethernet Switch - SCX 4POE 2T - 1108542

Technical data

Function

Additional functions	Jumbo frames

Conformance/approvals

Designation	CE
Certificate	CE-compliant
Designation	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
Designation	Corrosive gas test
Identification	ISA-S71.04-1985 G3 Harsh Group A

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	1g
Type of test	Shock in acc. with EN 60068-2-27/IEC 60068-2-27
Test result	15g, 11 ms
Noise emission	EN 61000-6-4, Class B, domain of use: residential and small commercial
Noise immunity	EN 61000-6-2
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
Standards/regulations	EN 61000-4-2
Contact discharge	± 6 kV
Indirect discharge	± 6 kV
Standards/regulations	EN 61000-4-3
Frequency range	80 MHz ... 3 GHz (80% amplitude modulation with 1 kHz)
Standards/regulations	EN 61000-4-4
Comments	Criterion B
Standards/regulations	EN 61000-4-5
	EN 61000-6-4
	EN 61000-4-6
Frequency range	0.15 MHz ... 80 MHz (80% amplitude modulation with 1 kHz)
Conducted noise emission	EN 61000-6-3 Class B, domain of use: residential and small commercial
Standards/regulations	IEC 62444
Rated insulation voltage	3 kV AC (Input / output, IEC/EN 60950-1)

Industrial Ethernet Switch - SCX 4POE 2T - 1108542

Technical data

Standards and Regulations

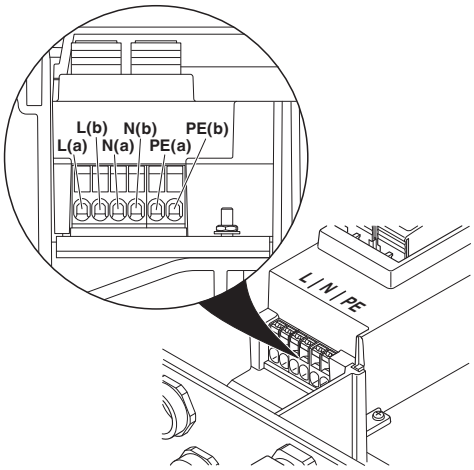
Pollution degree	2
Overvoltage category	III (With protection modules plugged in)
	II (Without protection modules)
Standards/regulations	IEC 61249-2-21

Environmental Product Compliance

REACh SVHC	Lead 7439-92-1

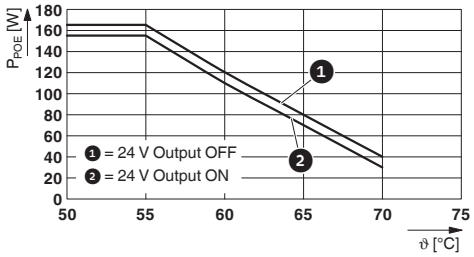
Drawings

Connection diagram



Connecting the supply voltage

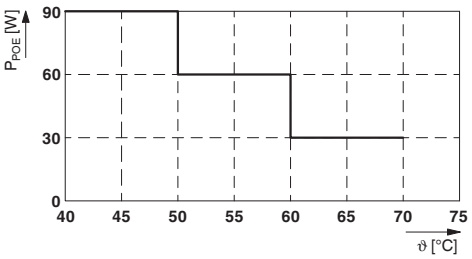
Diagram



Derating (PoE power total)

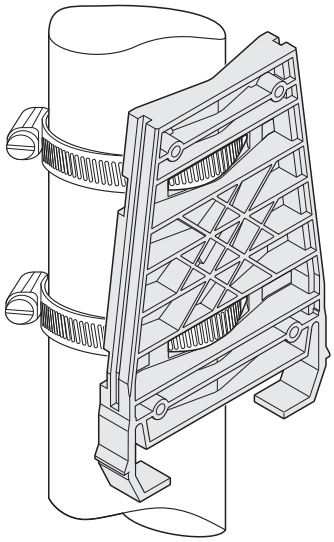
Industrial Ethernet Switch - SCX 4POE 2T - 1108542

Diagram



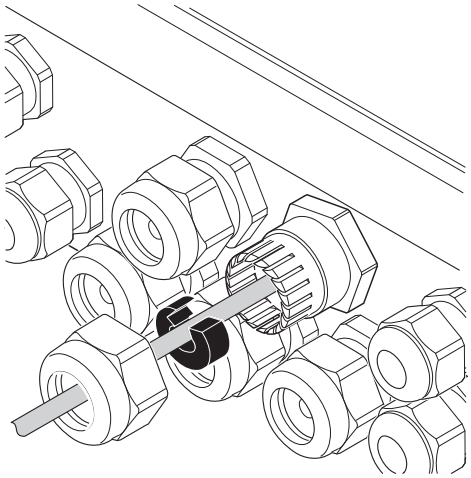
Derating per port

Schematic diagram



Mast mounting

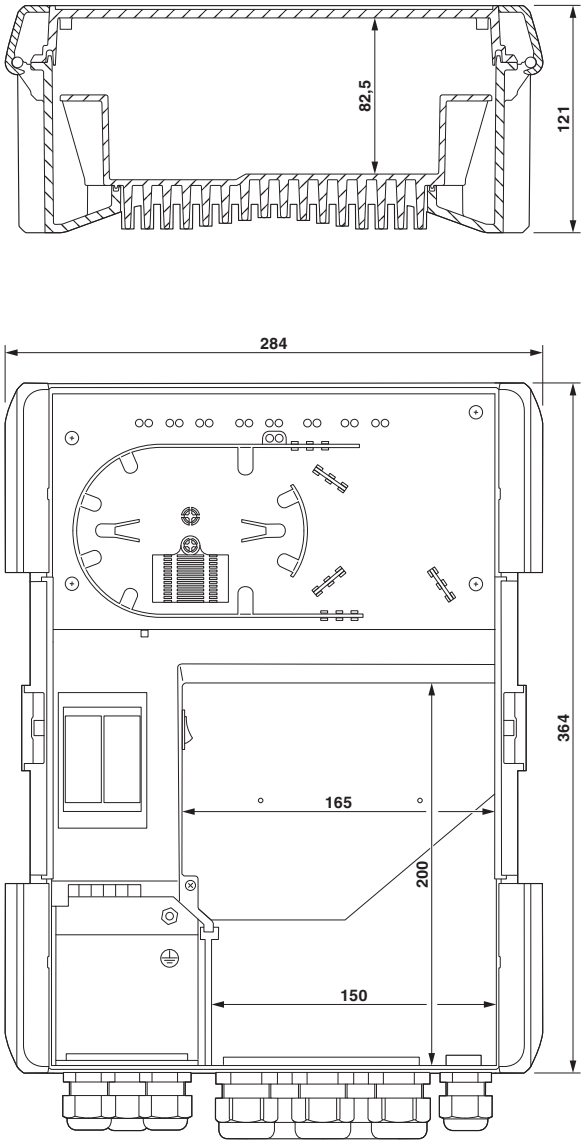
Schematic diagram



Cable gland

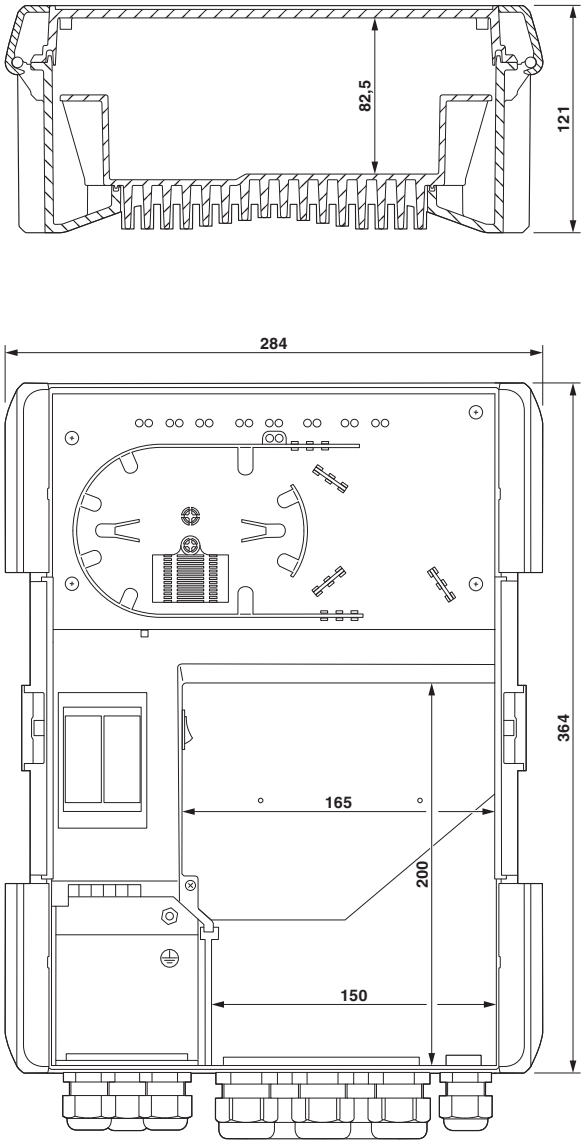
Industrial Ethernet Switch - SCX 4POE 2T - 1108542

Dimensional drawing



Industrial Ethernet Switch - SCX 4POE 2T - 1108542

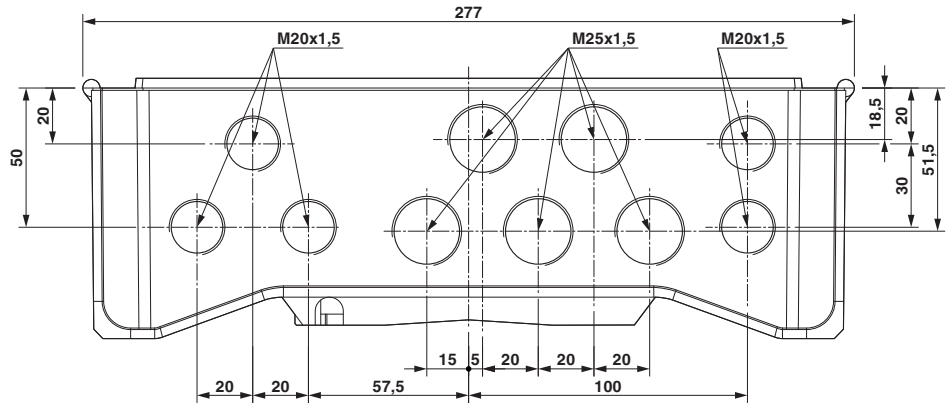
Dimensional drawing



Dimensional drawing

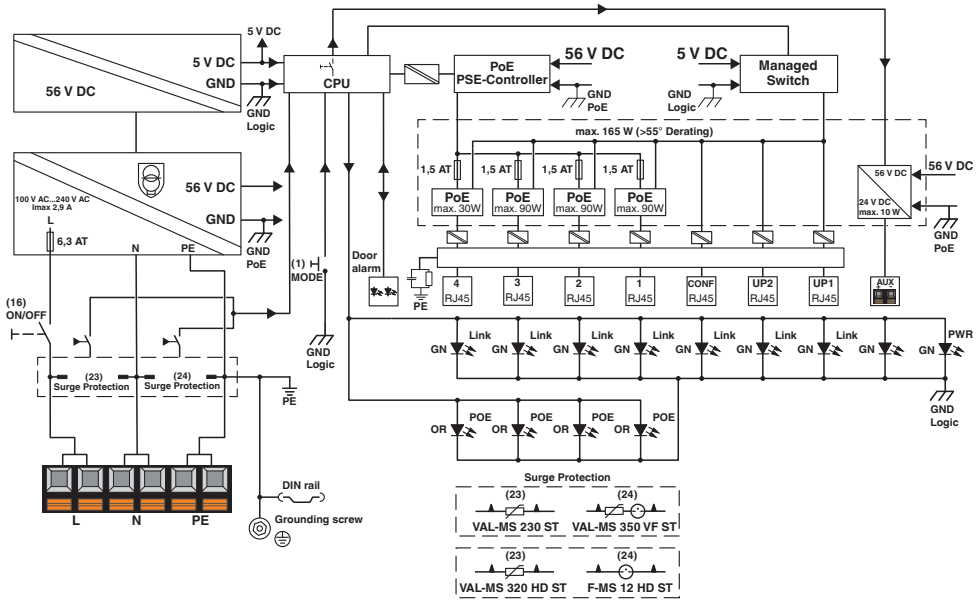
Industrial Ethernet Switch - SCX 4POE 2T - 1108542

Dimensional drawing



Dimensional drawing

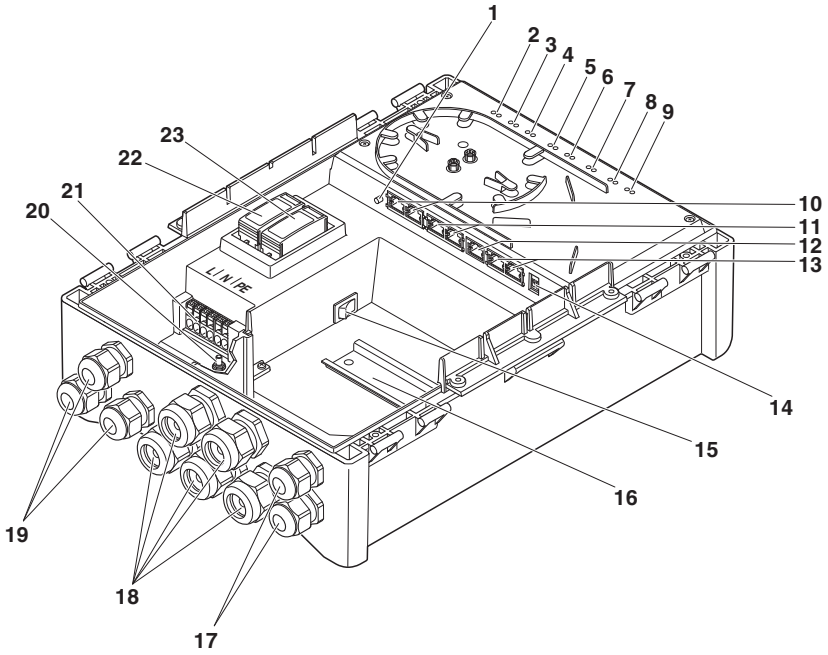
Circuit diagram



Basic circuit diagram

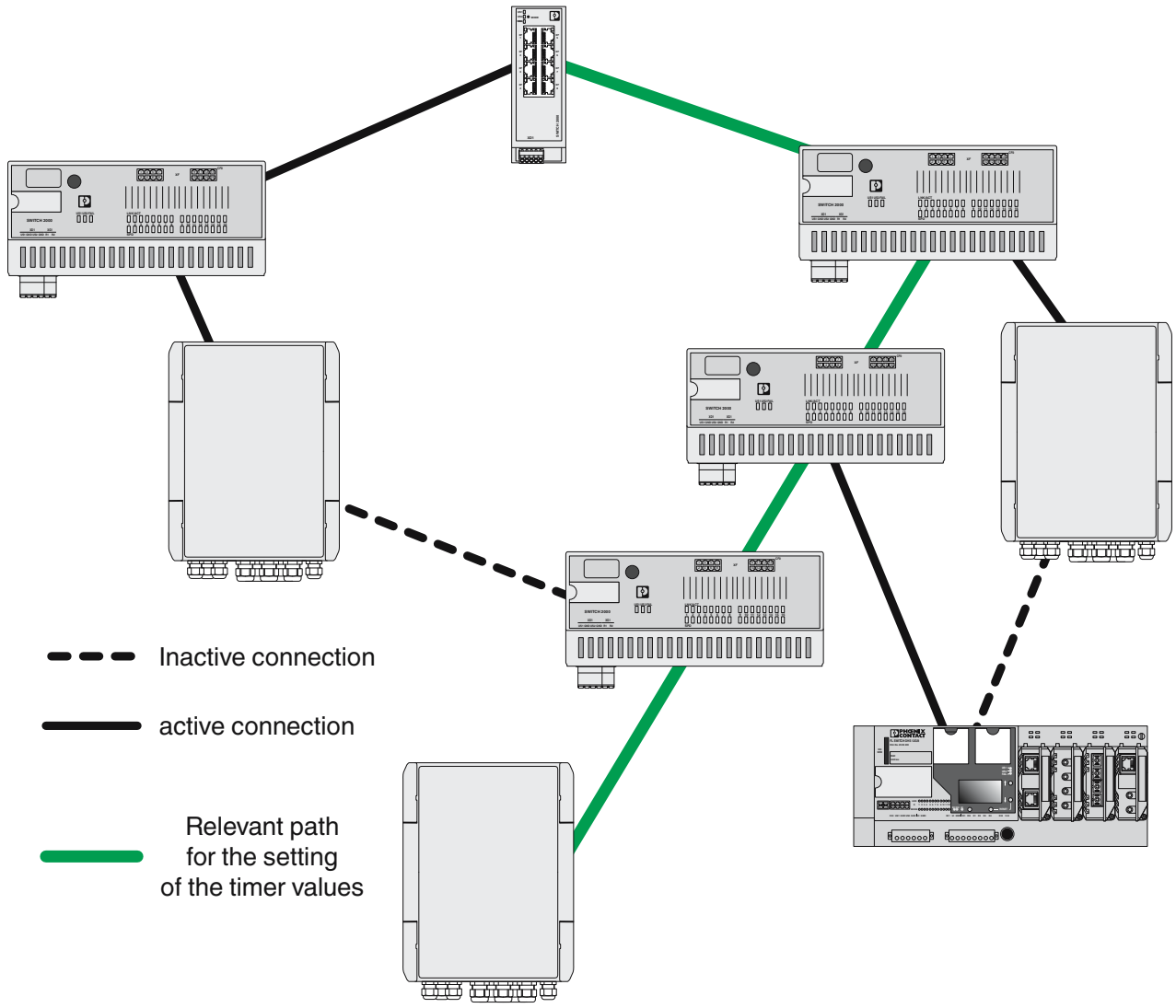
Industrial Ethernet Switch - SCX 4POE 2T - 1108542

Schematic diagram



Industrial Ethernet Switch - SCX 4POE 2T - 1108542

Application drawing



Industrial Ethernet Switch - SCX 4POE 2T - 1108542

Classifications

eCl@ss

eCl@ss 10.0.1	27180590
eCl@ss 11.0	27180590
eCl@ss 9.0	27180590

ETIM

ETIM 7.0	EC000261

Approvals

Approvals

Approvals

cULus Listed

Ex Approvals

Approval details

cULus Listed	c UL us LISTED	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705

Industrial Ethernet Switch - SCX 2POE 2LX - 1108543

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Smart Camera Box to connect PoE end devices, two PoE ports, two uplink ports (SFP slots), Managed Switch, integrated surge protection and splice tray, supply voltage 100 ... 240 V AC, wall or mast mounting

Product Description

The Smart Camera Box is used to connect PoE end devices such as IP cameras to a video server. You can use the Smart Camera Box to supply voltage to PoE end devices and additional external devices.
The Smart Camera Box is a manageable outdoor PoE switch with a power supply, a wiring space for the AC voltage supply, replaceable overvoltage protection modules, and an area with an integrated 24 V DC supply and a DIN rail for mounting additional devices.
The Smart Camera Box integrates the functions of conventional connection boxes equipped with standard DIN rail devices into a single compact device. This saves you planning and installation time.
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

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	4 063151 013196
GTIN	4063151013196
Weight per Piece (excluding packing)	4,980.000 g
Custom tariff number	85176200

Industrial Ethernet Switch - SCX 2POE 2LX - 1108543

Country of origin	Germany

Technical data

Dimensions

Width	284 mm
Height	364 mm
Depth	121 mm

Ambient conditions

Ambient temperature (operation)	-40 °C ... 70 °C (>50°C derating)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	10 % ... 95 % (non-condensing)
Altitude	2000 m
Degree of protection	IP65 (in accordance with DIN EN 60529: Complete touch protection, dust cannot enter, spray water from any direction)
Protection class	I (Protective grounding of all conductive housing parts)
Noise immunity	EN 61000-6-2
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

General

Thread type, cable screw connection	5x M20, 5x M25
Tightening torque	2 Nm M20
	3.5 Nm M25
External cable diameter	6 mm ... 12 mm (M20)
	6 mm ... 10 mm (M25)
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Noise emission	EN 61000-6-4, Class B, domain of use: residential and small commercial
Mounting type	Wall mounting
Net weight	4300 g
Material	Polycarbonate PC (Housing)
	Polyamide (Cable gland)
	Neoprene (Cable gland seal, black)
Color	light gray
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%)

Power supply

Supply voltage range	100 V AC ... 240 V AC -15 % ... +10 % (Single-phase)
Power supply system	TN

Industrial Ethernet Switch - SCX 2POE 2LX - 1108543

Technical data

Power supply

	TT
Protection	Miniature circuit breaker, 6 A ... 16 A, characteristics B, C, D, K
	Miniature circuit breaker/fuse
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
Conductor cross section flexible max.	6.00 mm²
Conductor cross section flexible min.	0.20 mm²
Conductor cross section solid max.	6.00 mm²
Conductor cross section solid min.	1.00 mm²
Max. AWG conductor cross section, flexible	10
Min. AWG conductor cross section, flexible	24
Stripping length	10 mm

Interfaces

Interface 1	Ethernet / Fast Ethernet / Gigabit Ethernet
Interface	PoE standard IEEE 802.3bt, at, af
No. of ports	2
Connection method	RJ45 jack
Note on the connection method	Auto negotiation and autocrossing
Transmission medium	Copper
Transmission length	100 m (per segment)
Basic functions	Store-and-forward switch, complies with IEEE 802.3
Transmission speed	10/100/1000 Mbps
Maximum output power	165 W (>55°C derating)
	155 W (If switching output is active, >55°C derating)
	90 W (per port POE1/2, >50°C derating)
Interface 2	Ethernet / Fast Ethernet / Gigabit Ethernet
Interface	Uplink ports
No. of ports	2
Connection method	SFP ports
Note on the connection method	The SFP modules are available as accessories
Transmission medium	depending on the SFP module used
Transmission length	< 80 km (depending on the SFP module used)
Interface 3	Configuration interface
No. of ports	1

Industrial Ethernet Switch - SCX 2POE 2LX - 1108543

Technical data

Interfaces

Connection method	RJ45
Interface 4	Switching output
Interface	Configuration via web-based management
No. of ports	1
Connection method	Push-in spring connection
Conductor cross section flexible max.	1.5 mm²
Conductor cross section flexible min.	0.2 mm²
Conductor cross section solid max.	1.5 mm²
Conductor cross section solid min.	0.2 mm²
Conductor cross section AWG max.	16
Conductor cross section AWG min.	24
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² ... 1.5 mm² (Stripping length 8 mm)
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² ... 0.75 mm² (Stripping length 8 mm)
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 Camera Box)
Output current	300 mA (typical)

Function

Management	Web-based management (HTTP/HTTPS)
	SNMPv2/v3
	Command-line interface (Telnet, SSH)
Diagnostic functions	RMON History
	LLDP (Link Layer Discovery Protocol)
	SNMP traps
	N:1-Portmirroring
	ACD (Address Conflict Detection)
Filter functions	Port prioritization
	VLAN (up to 32 VLANs)
Redundancy	RSTP (Rapid Spanning Tree Protocol)
	Large Tree Support
	FRD (Fast Ring Detection)
Time synchronization	SNTP (Simple Network Time Protocol)
IP parameterization	DHCP client
	BootP
	Static IP address
Additional functions	Jumbo frames

Industrial Ethernet Switch - SCX 2POE 2LX - 1108543

Technical data

Conformance/approvals

Designation	CE
Certificate	CE-compliant
Designation	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
Designation	Corrosive gas test
Identification	ISA-S71.04-1985 G3 Harsh Group A

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	1g
Type of test	Shock in acc. with EN 60068-2-27/IEC 60068-2-27
Test result	15g, 11 ms
Noise emission	EN 61000-6-4, Class B, domain of use: residential and small commercial
Noise immunity	EN 61000-6-2
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
Standards/regulations	EN 61000-4-2
Contact discharge	± 6 kV
Indirect discharge	± 6 kV
Standards/regulations	EN 61000-4-3
Frequency range	80 MHz ... 3 GHz (80% amplitude modulation with 1 kHz)
Standards/regulations	EN 61000-4-4
Comments	Criterion B
Standards/regulations	EN 61000-4-5
	EN 61000-6-4
	EN 61000-4-6
Frequency range	0.15 MHz ... 80 MHz (80% amplitude modulation with 1 kHz)
Conducted noise emission	EN 61000-6-3 Class B, domain of use: residential and small commercial
Standards/regulations	IEC 62444
Rated insulation voltage	3 kV AC (Input / output, IEC/EN 60950-1)
Pollution degree	2
Overvoltage category	III (With protection modules plugged in)

Industrial Ethernet Switch - SCX 2POE 2LX - 1108543

Technical data

Standards and Regulations

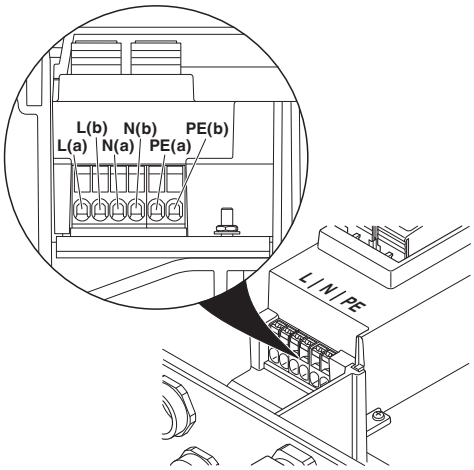
	II (Without protection modules)
Standards/regulations	IEC 61249-2-21

Environmental Product Compliance

REACh SVHC	Lead 7439-92-1

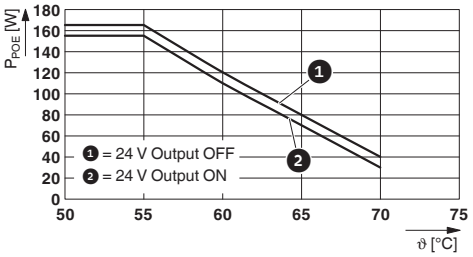
Drawings

Connection diagram



Connecting the supply voltage

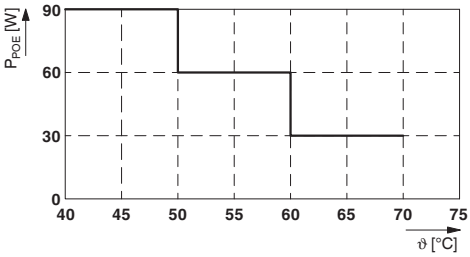
Diagram



Derating (PoE power total)

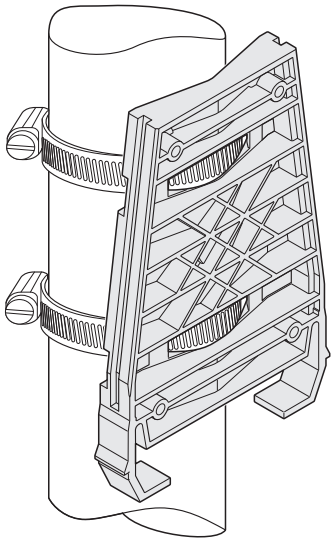
Industrial Ethernet Switch - SCX 2POE 2LX - 1108543

Diagram



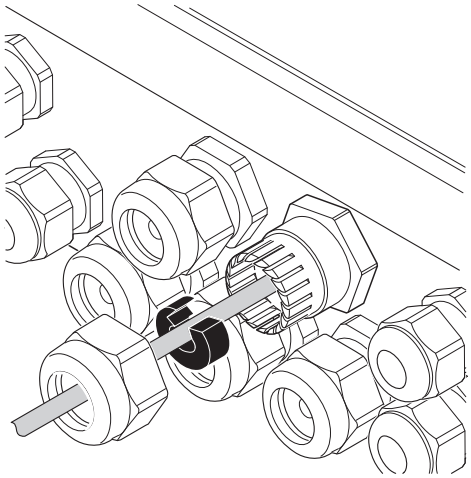
Derating per port

Schematic diagram



Mast mounting

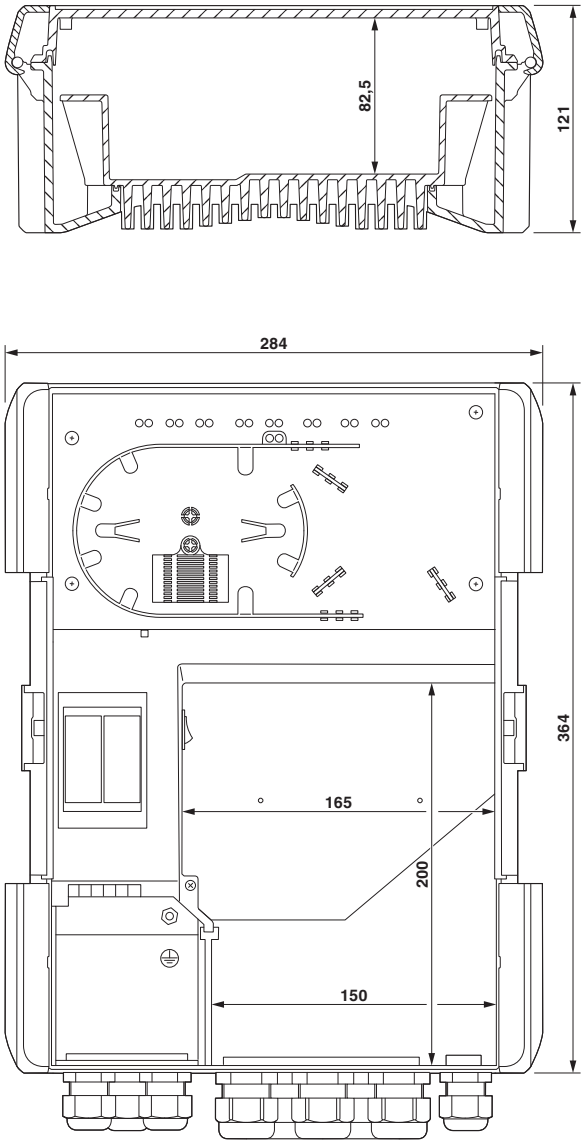
Schematic diagram



Cable gland

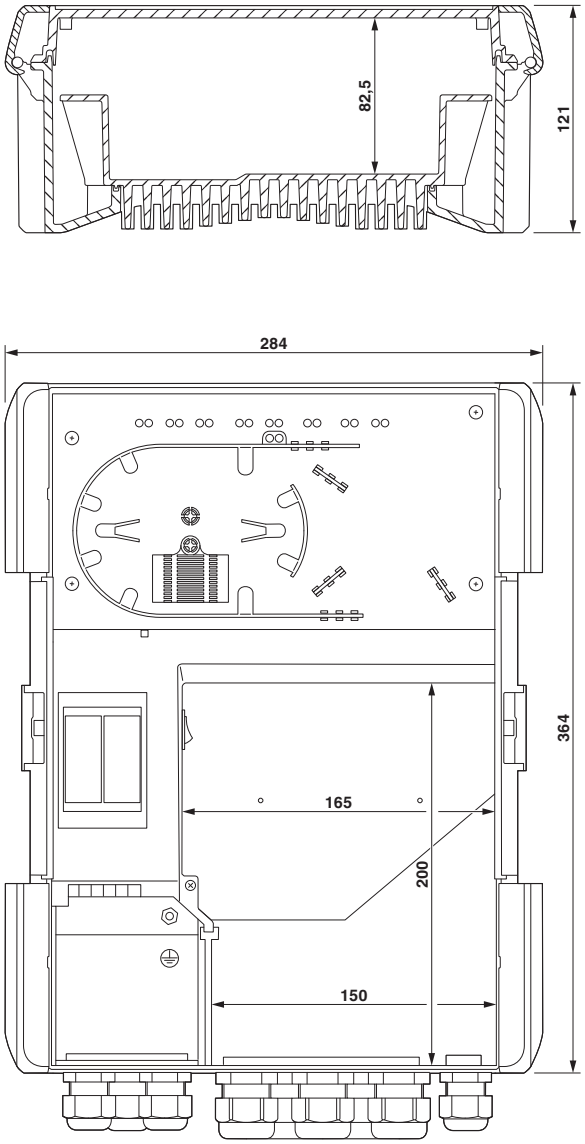
Industrial Ethernet Switch - SCX 2POE 2LX - 1108543

Dimensional drawing



Industrial Ethernet Switch - SCX 2POE 2LX - 1108543

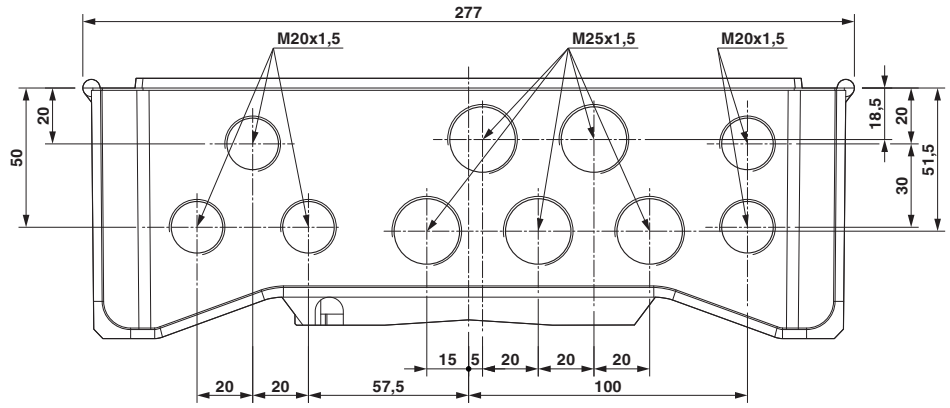
Dimensional drawing



Dimensional drawing

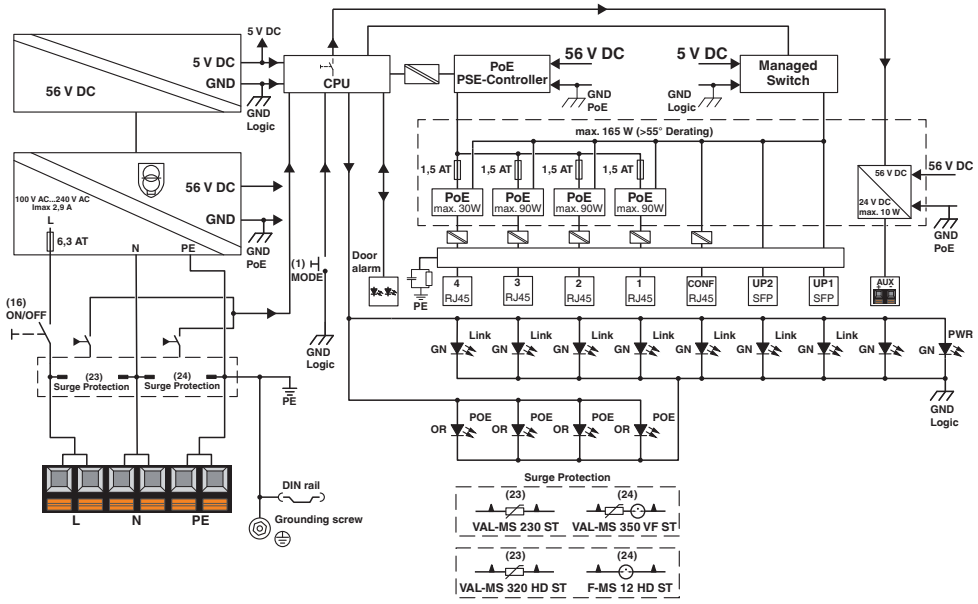
Industrial Ethernet Switch - SCX 2POE 2LX - 1108543

Dimensional drawing



Dimensional drawing

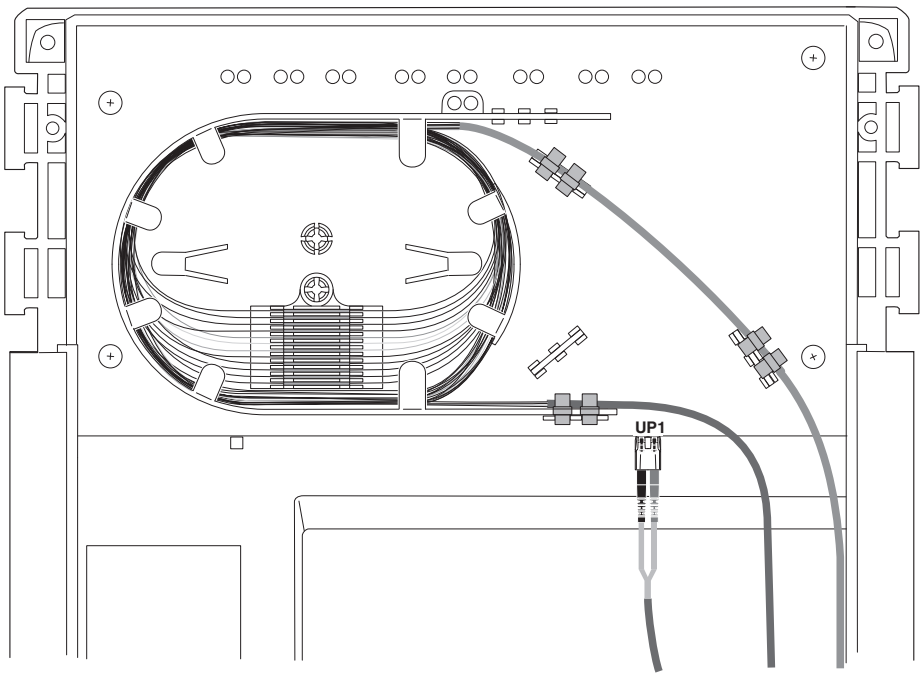
Circuit diagram



Basic circuit diagram

Industrial Ethernet Switch - SCX 2POE 2LX - 1108543

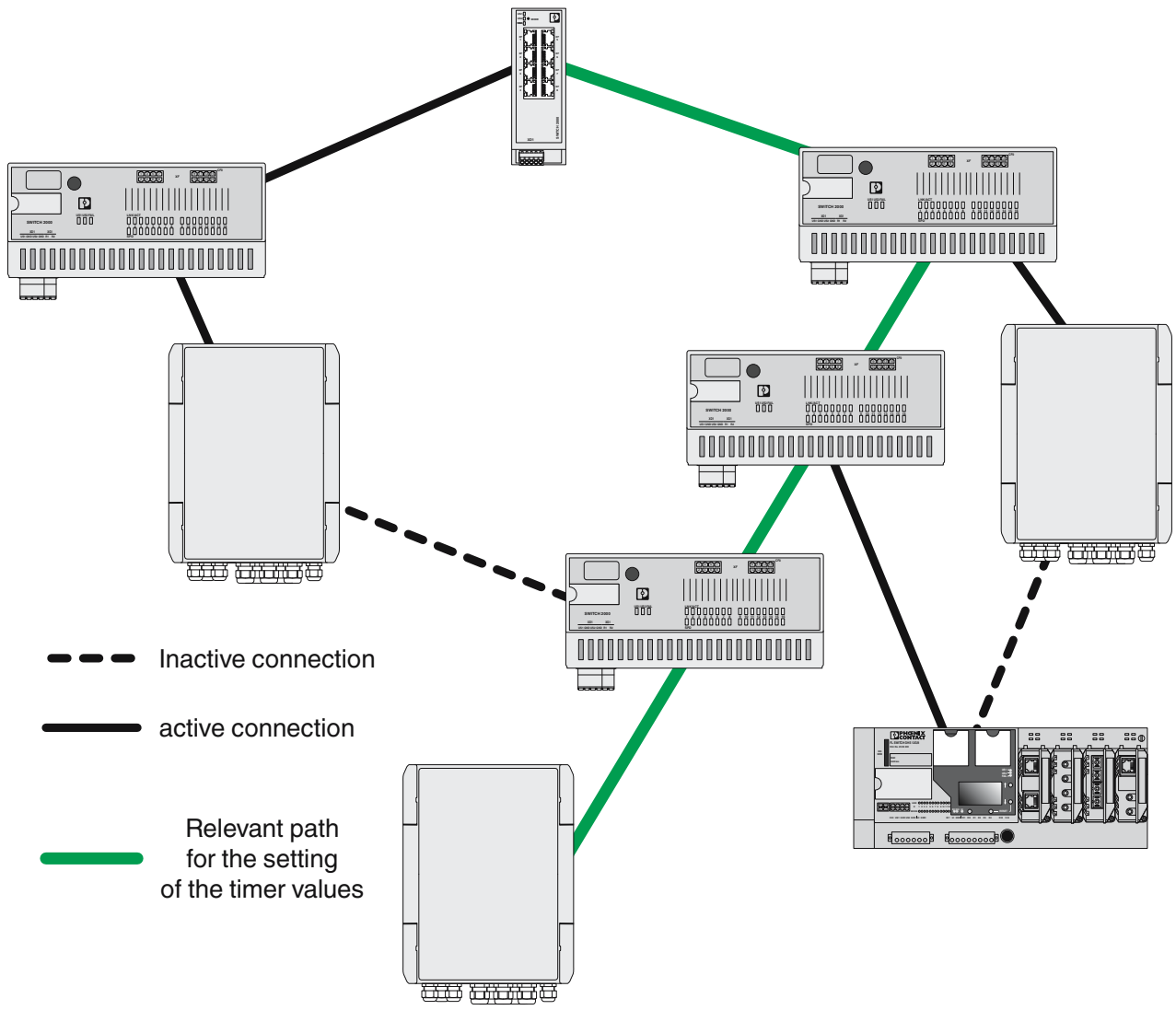
Schematic diagram



Splice tray

Industrial Ethernet Switch - SCX 2POE 2LX - 1108543

Application drawing



Industrial Ethernet Switch - SCX 2POE 2LX - 1108543

Classifications

eCl@ss

eCl@ss 10.0.1	27180590
eCl@ss 11.0	27180590
eCl@ss 9.0	27180590

ETIM

ETIM 7.0	EC000261

Approvals

Approvals

Approvals

cULus Listed

Ex Approvals

Approval details

cULus Listed	c UL us LISTED	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705

Industrial Ethernet Switch - SCX 2POE 2T - 1108544

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Smart Camera Box to connect PoE end devices, two PoE ports, two uplink ports (RJ45), integrated Managed Switch and surge protection, supply voltage 100 ... 240 V AC, wall or mast mounting

Product Description

The Smart Camera Box is used to connect PoE end devices such as IP cameras to a video server. You can use the Smart Camera Box to supply voltage to PoE end devices and additional external devices.
The Smart Camera Box is a manageable outdoor PoE switch with a power supply, a wiring space for the AC voltage supply, replaceable overvoltage protection modules, and an area with an integrated 24 V DC supply and a DIN rail for mounting additional devices.
The Smart Camera Box integrates the functions of conventional connection boxes equipped with standard DIN rail devices into a single compact device. This saves you planning and installation time.
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

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	4 063151 015121
GTIN	4063151015121
Weight per Piece (excluding packing)	5,000.000 g
Custom tariff number	85176200
Country of origin	Germany

Industrial Ethernet Switch - SCX 2POE 2T - 1108544

Technical data

Dimensions

Width	284 mm
Height	364 mm
Depth	121 mm

Ambient conditions

Ambient temperature (operation)	-40 °C ... 70 °C (>50°C derating)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	10 % ... 95 % (non-condensing)
Altitude	2000 m
Degree of protection	IP65 (in accordance with DIN EN 60529: Complete touch protection, dust cannot enter, spray water from any direction)
Protection class	I (Protective grounding of all conductive housing parts)
Noise immunity	EN 61000-6-2
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

General

Thread type, cable screw connection	5x M20, 5x M25
Tightening torque	2 Nm M20
	3.5 Nm M25
External cable diameter	6 mm ... 12 mm (M20)
	6 mm ... 10 mm (M25)
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Noise emission	EN 61000-6-4, Class B, domain of use: residential and small commercial
Mounting type	Wall mounting
Net weight	4300 g
Material	Polycarbonate PC (Housing)
	Polyamide (Cable gland)
	Neoprene (Cable gland seal, black)
Color	light gray
MTTF	496 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)
	247 Years (SN 29500 standard, temperature 40°C, operating cycle 34.25%)
	105 Years (SN 29500 standard, temperature 40°C, operating cycle 100%)

Power supply

Supply voltage range	100 V AC ... 240 V AC -15 % ... +10 % (Single-phase)
Power supply system	TN
	TT

Industrial Ethernet Switch - SCX 2POE 2T - 1108544

Technical data

Power supply

Protection	Miniature circuit breaker, 6 A ... 16 A, characteristics B, C, D, K
	Miniature circuit breaker/fuse
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
Conductor cross section flexible max.	6.00 mm²
Conductor cross section flexible min.	0.20 mm²
Conductor cross section solid max.	6.00 mm²
Conductor cross section solid min.	1.00 mm²
Max. AWG conductor cross section, flexible	10
Min. AWG conductor cross section, flexible	24
Stripping length	10 mm

Interfaces

Interface 1	Ethernet / Fast Ethernet / Gigabit Ethernet
Interface	PoE standard IEEE 802.3bt, at, af
No. of ports	2
Connection method	RJ45 jack
Note on the connection method	Auto negotiation and autocrossing
Transmission medium	Copper
Transmission length	100 m (per segment)
Basic functions	Store-and-forward switch, complies with IEEE 802.3
Transmission speed	10/100/1000 Mbps
Maximum output power	165 W (>55°C derating)
	155 W (If switching output is active, >55°C derating)
	90 W (per port POE1/2, >50°C derating)
Interface 2	Ethernet / Fast Ethernet / Gigabit Ethernet
Interface	Uplink ports
No. of ports	2
Connection method	RJ45 jack
Transmission medium	Copper
Transmission length	100 m (per segment)
Interface 3	Configuration interface
No. of ports	1
Connection method	RJ45
Interface 4	Switching output

Industrial Ethernet Switch - SCX 2POE 2T - 1108544

Technical data

Interfaces

Interface	Configuration via web-based management
No. of ports	1
Connection method	Push-in spring connection
Conductor cross section flexible max.	1.5 mm²
Conductor cross section flexible min.	0.2 mm²
Conductor cross section solid max.	1.5 mm²
Conductor cross section solid min.	0.2 mm²
Conductor cross section AWG max.	16
Conductor cross section AWG min.	24
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² ... 1.5 mm² (Stripping length 8 mm)
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² ... 0.75 mm² (Stripping length 8 mm)
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 Camera Box)
Output current	300 mA (typical)

Function

Management	Web-based management (HTTP/HTTPS)
	SNMPv2/v3
	Command-line interface (Telnet, SSH)
Diagnostic functions	RMON History
	LLDP (Link Layer Discovery Protocol)
	SNMP traps
	N:1-Portmirroring
	ACD (Address Conflict Detection)
Filter functions	Port prioritization
	VLAN (up to 32 VLANs)
Redundancy	RSTP (Rapid Spanning Tree Protocol)
	Large Tree Support
	FRD (Fast Ring Detection)
Time synchronization	SNTP (Simple Network Time Protocol)
IP parameterization	DHCP client
	BootP
	Static IP address
Additional functions	Jumbo frames

Conformance/approvals

Designation	CE

Industrial Ethernet Switch - SCX 2POE 2T - 1108544

Technical data

Conformance/approvals

Certificate	CE-compliant
Designation	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
Designation	Corrosive gas test
Identification	ISA-S71.04-1985 G3 Harsh Group A

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	1g
Type of test	Shock in acc. with EN 60068-2-27/IEC 60068-2-27
Test result	15g, 11 ms
Noise emission	EN 61000-6-4, Class B, domain of use: residential and small commercial
Noise immunity	EN 61000-6-2
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
Standards/regulations	EN 61000-4-2
Contact discharge	± 6 kV
Indirect discharge	± 6 kV
Standards/regulations	EN 61000-4-3
Frequency range	80 MHz ... 3 GHz (80% amplitude modulation with 1 kHz)
Standards/regulations	EN 61000-4-4
Comments	Criterion B
Standards/regulations	EN 61000-4-5
	EN 61000-6-4
	EN 61000-4-6
Frequency range	0.15 MHz ... 80 MHz (80% amplitude modulation with 1 kHz)
Conducted noise emission	EN 61000-6-3 Class B, domain of use: residential and small commercial
Standards/regulations	IEC 62444
Rated insulation voltage	3 kV AC (Input / output, IEC/EN 60950-1)
Pollution degree	2
Overvoltage category	III (With protection modules plugged in)
	II (Without protection modules)

Industrial Ethernet Switch - SCX 2POE 2T - 1108544

Technical data

Standards and Regulations

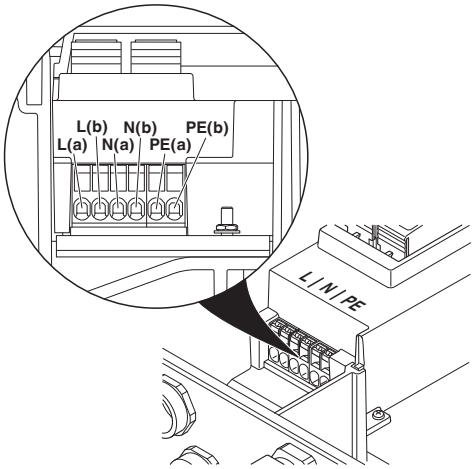
Standards/regulations	IEC 61249-2-21

Environmental Product Compliance

REACh SVHC	Lead 7439-92-1

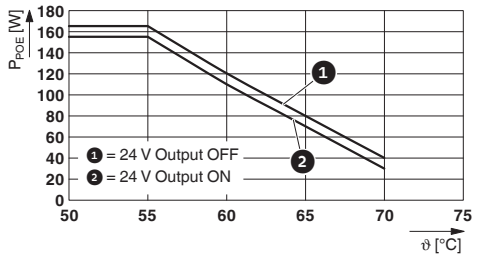
Drawings

Connection diagram



Connecting the supply voltage

Diagram



Derating (PoE power total)

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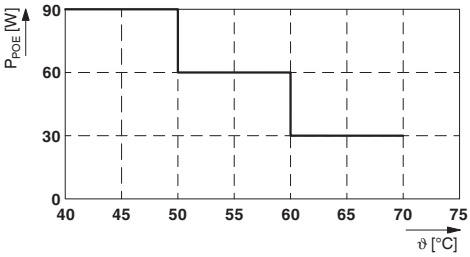
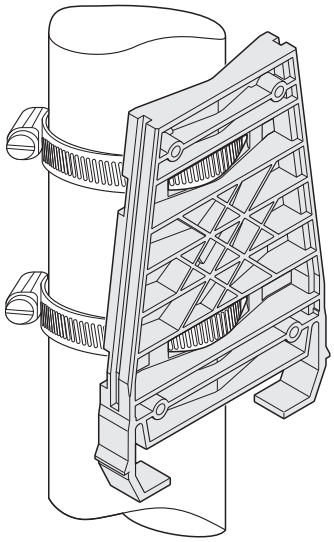
Diagram



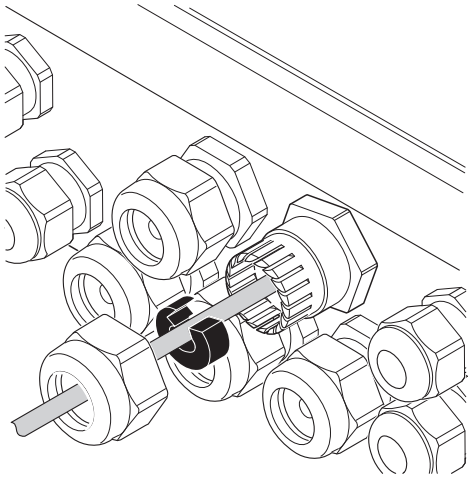
Derating per port

Schematic diagram



Mast mounting

Schematic diagram



Cable gland

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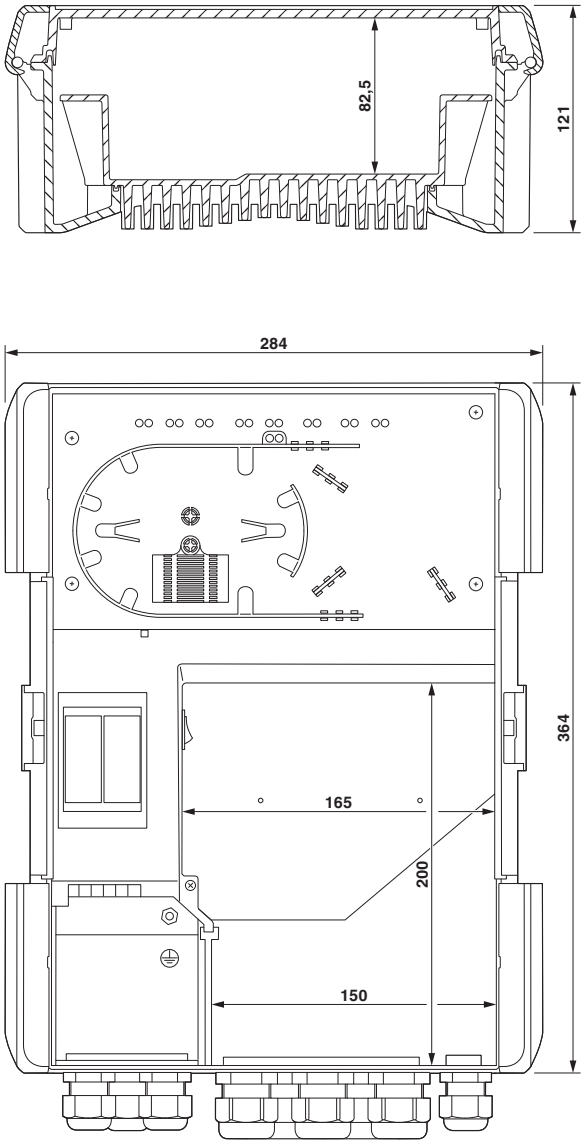
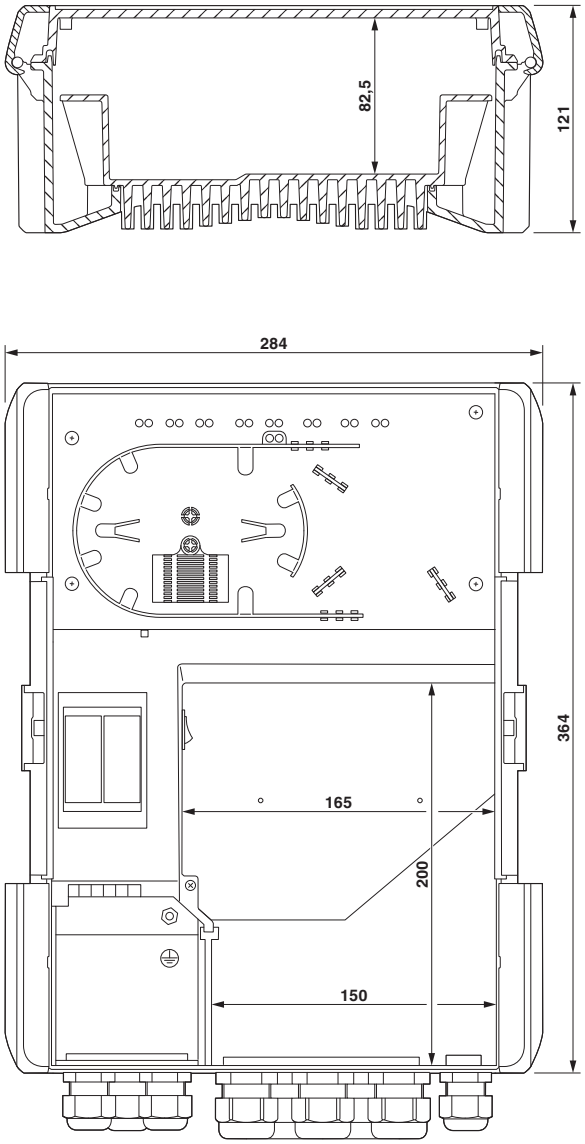
Dimensional drawing



Industrial Ethernet Switch - SCX 2POE 2T - 1108544

Dimensional drawing



Dimensional drawing

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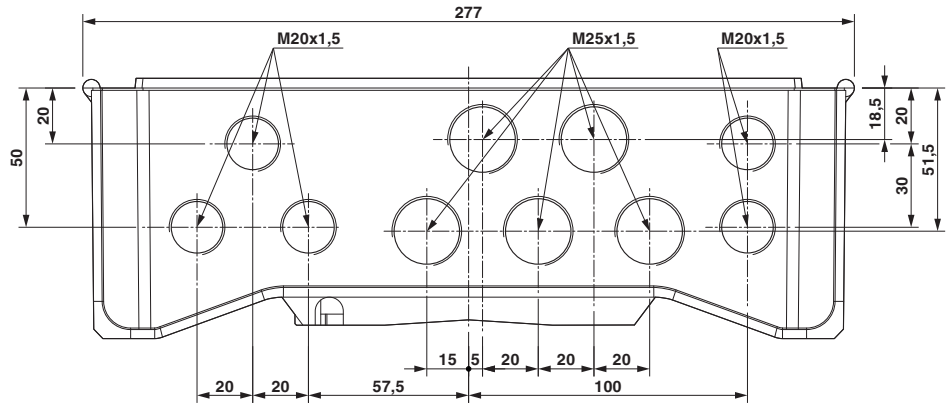
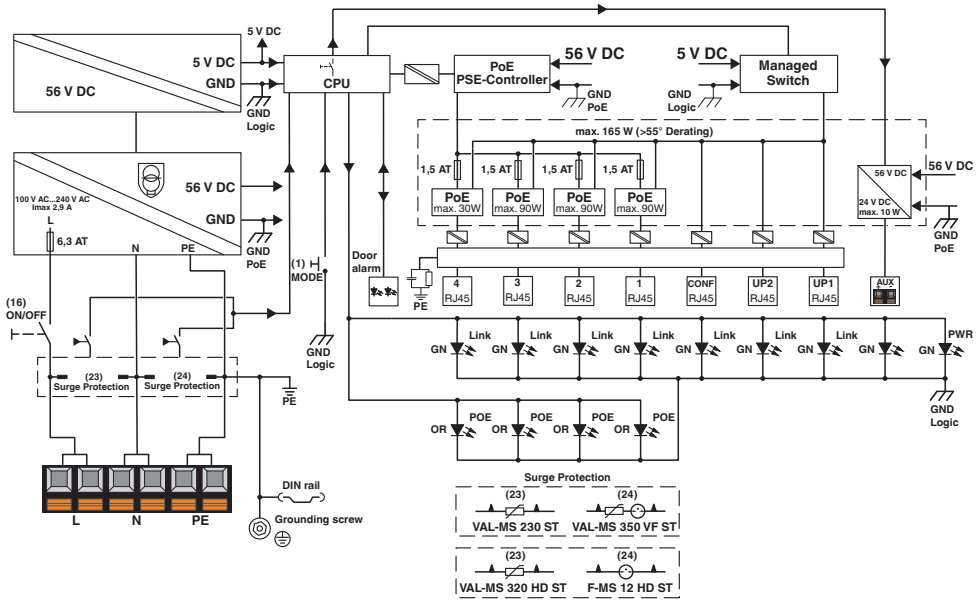
Dimensional drawing



Dimensional drawing

Circuit diagram



Basic circuit diagram

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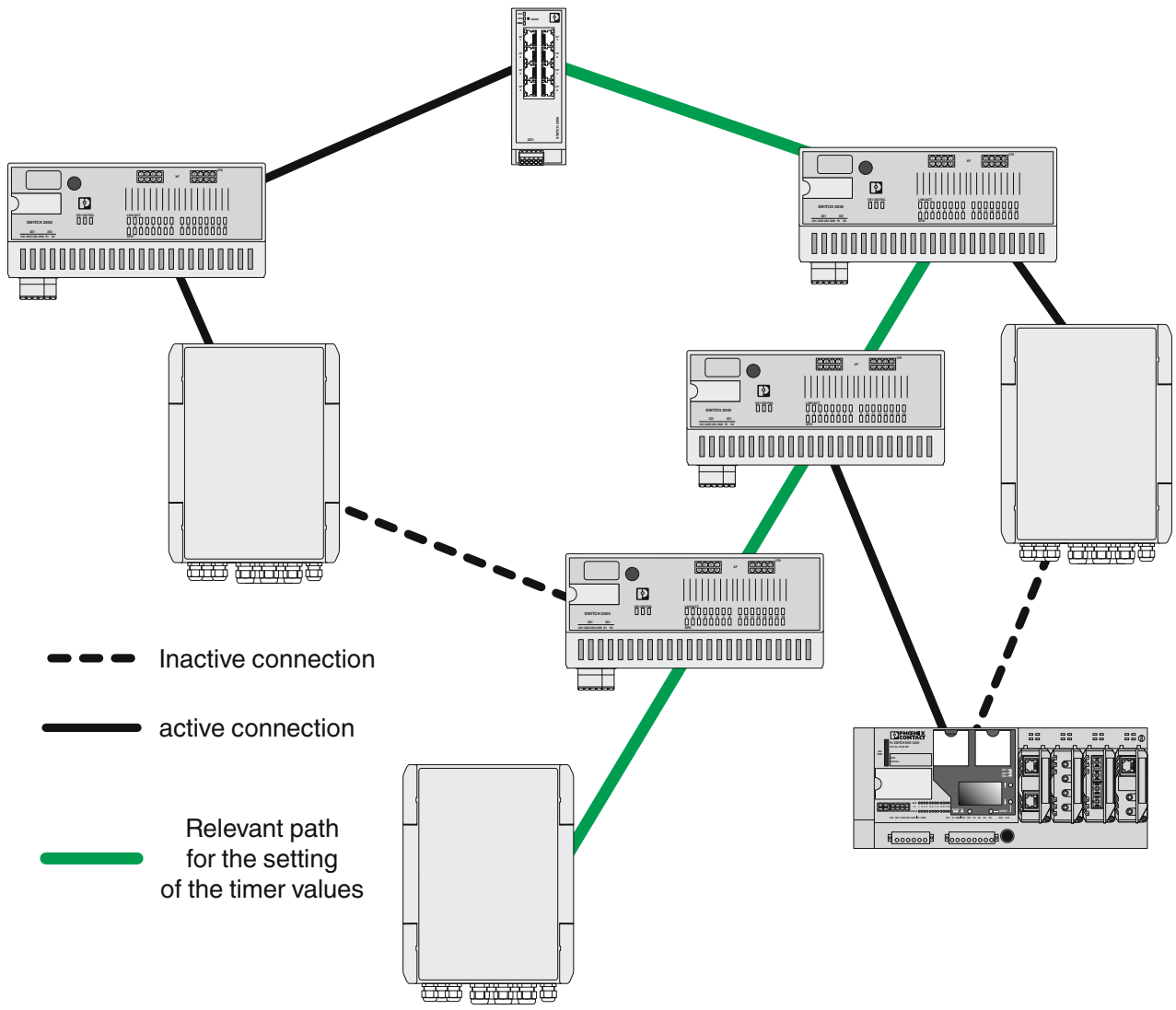
Application drawing



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Classifications

eCl@ss

eCl@ss 10.0.1	27180590
eCl@ss 11.0	27180590
eCl@ss 9.0	27180590

ETIM

ETIM 7.0	EC000261

Approvals

Approvals

Approvals

cULus Listed

Ex Approvals

Approval details

cULus Listed	c UL us LISTED	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705