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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

- 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
- Quick and easy startup and configuration via web-based management or the FL Network Manager software



Key Commercial Data

Packing unit	1 pc
GTIN	4 063151 015114
GTIN	4063151015114
Weight per Piece (excluding packing)	4,300.000 g
Custom tariff number	85176200
Country of origin	Germany
Sales Key	DNC371



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

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



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	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 POE13, >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)
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



Technical data

Interfaces

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 mm ² 0.75 mm ² (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
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



Technical data

Conformance/approvals

	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)
Standards/regulations	IEC 61249-2-21

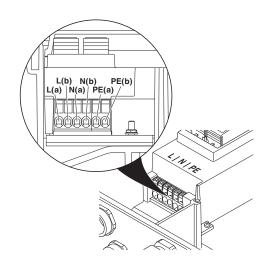
Environmental Product Compliance

REACh SVHC	Lead 7439-92-1

Drawings

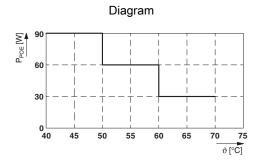


Connection diagram



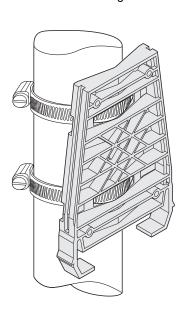
Derating (PoE power total)

Connecting the supply voltage



Derating per port

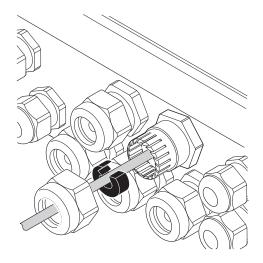
Schematic diagram



Mast mounting



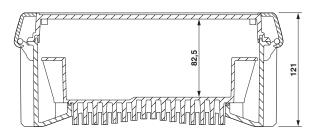
Schematic diagram

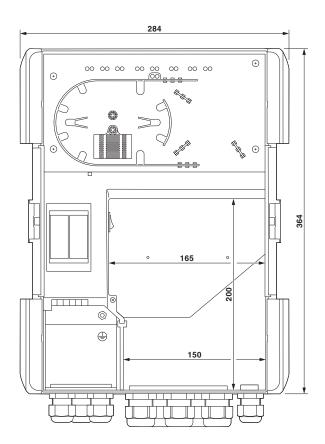


Cable gland



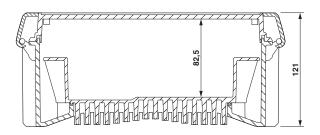
Dimensional drawing

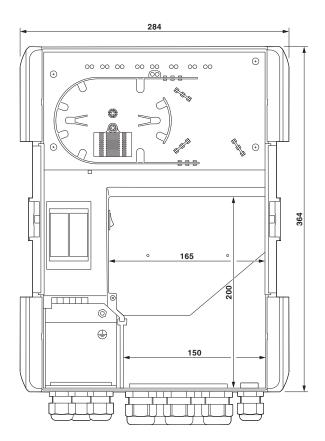






Dimensional drawing

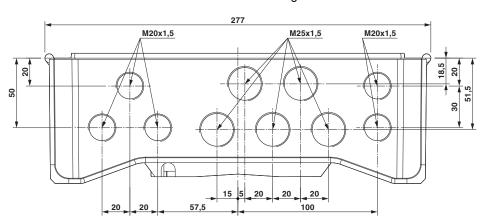




Dimensional drawing

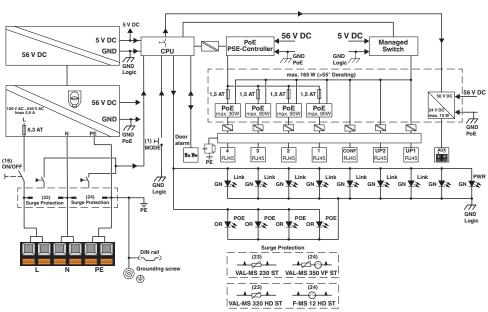


Dimensional drawing



Dimensional drawing



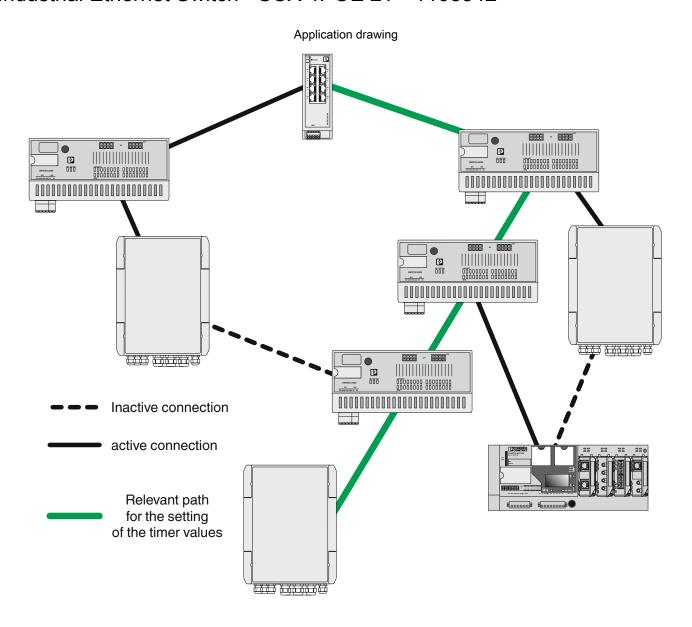


Basic circuit diagram



Schematic diagram 1 2 3 4 5 6 7 8 9 20 21 10 10 11 12 13 13 13







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



http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm

FILE E 238705

Accessories

Accessories

Assembly adapter

Mounting plate - FL DIN-RAIL ADAPTER 22.5 - 1085485



The FL DIN-RAIL ADAPTER 22.5 is designed to allow products 22.5 mm wide to be mounted flush to a standard 35 mm DIN rail, in any orientation.

Mounting plate - FL DIN-RAIL ADAPTER 40 - 1085484



The FL DIN-RAIL ADAPTER 40 is designed to allow products 40 mm wide to be mounted flush to a standard 35 mm DIN rail, in any orientation.



Accessories

Data cable preassembled

Network cable - NBC-R4AC-R4AC-IE8/.../... - 1411842



Network cable, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5, cable outlet: straight, Ethernet

Network cable - NBC-R4AC-R4AC-IE8/.../... - 1411842



Network cable, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5, cable outlet: straight, Ethernet

Mounting material

Mast clamp - SCX-CLAMP 14X51-127 - 1175556

Mast clamps, 2 pcs, with quick mounting connection for installation on masts with a diameter of 51 ... 127 mm



Mast clamp - SCX-CLAMP 14X102-254 - 1188634

Mast clamps, 2 pcs, with quick mounting connection for installation on masts with a diameter of 102 ... 254 mm



Locking - SCX-DOOR-LOCK - 1184401



Stable door lock with locking tab for securely locking the Smart Camera Box, protects against unauthorized access, for a padlock with a shackle diameter of up to 12 mm

Network management software



Accessories

Software - FL NETWORK MANAGER BASIC - 2702889



FL Network Manager, SNMP-based configuration and firmware update software, for easy startup of Managed Switches

Replacement plug

Type 2 surge protection plug - F-MS 12 HD ST - 1224885



Replacement plug for the SCX Smart Camera Box for the N-PE path.

Type 2 surge protection plug - VAL-MS 320 HD ST - 1224886



Replacement plug for the SCX Smart Camera Box for the L-N path.

Type 2 surge protection plug - VAL-MS 230 ST - 2798844



Surge protection connector type 2 with high-capacity varistor for VAL-MS base element, thermal monitoring, visual fault warning. Design: 230 V AC

Type 2 surge protection plug - VAL-MS 350 VF ST - 2856595



Surge protection connector type 2 with series connection consisting of varistor and gas-filled spark gap for VAL-MS base element, thermal monitoring, visual fault warning. Design: 350 V AC

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