



2022

28 YEARS
OF EXPERIENCE



MANUFACTURER OF POWER SUPPLIES,
METAL ENCLOSURES AND ELECTRONICS



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Available on request

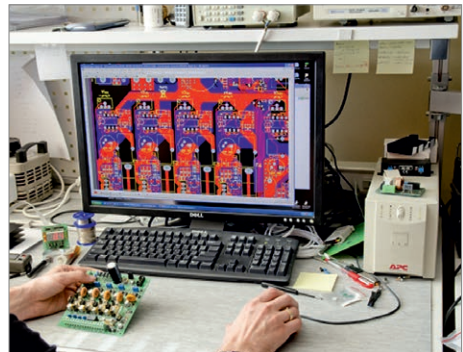
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OEM / ODM



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Quality - ISO 9001 / REACH

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Buffer power supply units

HPSB series

18



- switch mode
- 13,8VDC / 27,6VDC / 54VDC

HPSG2 series

19



- switch mode
- 13,8VDC / 27,6VDC
- with technical outputs
- compliant with standards:
 - alarm system EN50131-6 for grades 1, 2 (Grade 1, 2)
 - access control EN60839-11 for grades 1, 2 (Grade 1, 2)

AWZG2 series

20



- 13,8VDC / 27,6VDC
- with technical outputs
- compliant with standards:
 - alarm system EN50131-6 for grades 1, 2 (Grade 1, 2)
 - access control EN60839-11 for grades 1, 2 (Grade 1, 2)

PSBEN series

21

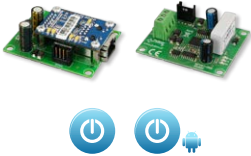


- switch mode
- 13,8VDC / 27,6VDC
- with technical outputs
- compliant with EN50131-6 – GRADE3 standard for alarm systems

BLACK POWER

Accessories for PSBEN series

23



- interfaces (LAN, RS485)
- „PowerSecurity“ application

EN54C series

25



- switch mode
- 27,6VDC
- EN54-4 and EN12101-10 certified
- communication: LAN, RS485 – appropriate modules required

RED POWER plus

Buffer power supply modules EN54M

27

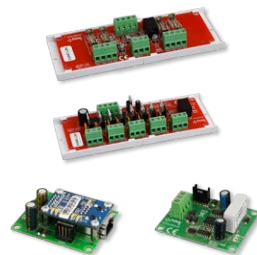


- switch mode
- 27,6VDC
- compliant with EN54-4 standard for fire detection

RED POWER plus

Accessories for EN54C, EN54M series

29



- fuse modules
- sequential modules
- interfaces (LAN, RS485)
- „PowerSecurity“ application

AWZ series – DAHUA

30



- switch mode
- 13,8VDC
- power supply unit for Access Control Systems

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Batteries

HPB, SCB, STB series

31



Enclosed power supply units

PS series

32



- switch mode
- 12VDC / 48VDC

PSB series

33



- switch mode
- buffer 13,8VDC / 27,6VDC / 54VDC

PSG2 series

34



- switch mode
- buffer 13,8VDC / 27,6VDC
- with technical outputs
- compliant with standards:
 - alarm system EN50131-6 for grades 1, 2 (Grade 1, 2);
 - access control EN60839-11 for grades 1, 2 (Grade 1, 2)

PoE switches for IP cameras (compliant with IEEE 802.3af/at)

S series

36



- PoE switch with power supply unit
- 10/100 Mb/s and 1 Gb/s ports
- number of outputs: 4 / 8 / 16 / 24
- Long Range mode

SG series

37



- PoE switch with power supply unit
- 1 Gb/s ports
- number of outputs: 4 / 8

SF series

38



- PoE switch with power supply unit
- with SFP sockets
- 10/100 Mb/s and 1 Gb/s ports
- number of outputs: 8 / 16 / 24

SFG series

39



- PoE switch with power supply unit
- with SFP sockets
- 1 Gb/s ports
- number of outputs: 4

SFG10F8 series

40



- optical switch with power supply unit
- SFP sockets: 8 pcs
- RJ45 sockets: 2 pcs
- 1 Gb/s ports

S...WP, SG...WP, SFG...WP series

42



- PoE switch without power supply
- 10/100 Mb/s and 1 Gb/s ports
- number of outputs: 4 / 8 / 16 / 24
- for installation in universal power supply systems SWS and SWB series

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PoE switches for IP cameras, industrial (compliant with IEEE 802.3af/at)

ISFG, ISF series

41



- industrial
- PoE switch without power supply units
- with SFP sockets
- 10/100 Mb/s and 1 Gb/s ports
- number of outputs: 2 / 4 / 8
- Range of operating temperatures
- possibility of redundant supplying

Power supply systems for PoE switches

SWS series

43



- switch mode power supply 52VDC
- operation with PoE switches: 4/8 ports

SWB series

44



- switch mode power supply 52VDC / 54VDC
- uninterruptible power
- operation with PoE switches: 4/8 ports

SWB-RACK series

45



- switch mode power supply 54VDC
- uninterruptible power
- operation with PoE switches: 4/8/16/24 ports
- RACK 19" brackets
- recorder space

PoE buffer power supplies enclosed 52VDC

PWB series

46



- switch mode
- buffer 52VDC
- powered by batteries:
 - 1x 7÷17Ah
 - 2x 7÷17Ah

PoE switches for IP cameras – in hermetic enclosure IP56 (compliant with IEEE 802.3af/at)

S...H, SG...H series

47



- PoE switch for IP cameras with power supply
- desktop type power supply included
- 10/100 Mb/s and 1 Gb/s ports
- number of outputs: 4

SFP fiber optic modules for switches of SF..., SFG..., ISFG..., ISF... series

GBIC series

48



- fiber type: single mode (SM) / multimode (MM)
- optical connector Type: LC / SC

Twisted pair wires

PU-NC series

49





- U/UTP (unshielded cable)
- F/UTP (shielded cable)


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Multi-output power supply units

(HD-CVI / HD-TVI / AHD cameras, access control, other applications)

HPSDC series	50
 <ul style="list-style-type: none"> • 12VDC • number of outputs: 4 / 8 / 16 (e.g. cameras HD) • fuse type: glass fuse 	


PSDC series	51
 <ul style="list-style-type: none"> • 12VDC • number of outputs: 4 / 8 / 16 (e.g. cameras HD) • fuse type: glass fuse • enclosed 	

PSAC series	52
 <ul style="list-style-type: none"> • ~24VAC or ~27VAC • number of outputs: 8 (e.g. cameras HD) • fuse type: glass fuse / PTC • with failure outputs 	


PSACH series	53
 <ul style="list-style-type: none"> • ~24VAC or ~27VAC • number of outputs: 1 (e.g. cameras HD) • fuse type: glass fuse • IP65 hermetic enclosure 	

Multi-output buffer power supply units


(HD-CVI / HD-TVI / AHD cameras, access control, other applications)

PSDCB series	54
 <ul style="list-style-type: none"> • buffer power supply unit 13,8VDC • number of outputs: 9 (e.g. cameras HD) 	

Buffer power supply units for HD cameras and DVR

PSUPS... CR series	55
 <ul style="list-style-type: none"> • buffer power supply unit 13,8VDC / 12VDC • number of outputs: 8 / 16 HD cameras 13,8VDC + recorder 12VDC/4A (12VDC/5A) • with recorder space • GDPR 	

Battery controllers

AWZ series	56
 <ul style="list-style-type: none"> • 12VDC / 24VDC / 48VDC • cooperation with 13,8 / 27,6 / 54VDC uninterruptible power supply units 	

DSO-PRA Power System for PRAESENSA system by BOSCH

(compliant with: EN54-4, EN12101-10 norms / standards)

DSO-PRA	57
 <ul style="list-style-type: none"> • VAS cabinets • Devices VAS: BOSCH - PRAESENSA • Fans, thermostat, batteries, wheels • Safety contact strip • 230VAC voltage distribution terminal • Indication panel • Firefighter's microphone power supply unit • Enclosure of firefighter's microphone • Power adapter of firefighter's microphone • Ethernet communication (BOSCH) • Configuration software for DSO-PRA - Bosch PRAESENSA 	

DSOP24V Power System for PAVIRO system by BOSCH

(compliant with: EN54-4, EN12101-10 norms / standards)


DSOP24V	58
 <ul style="list-style-type: none"> • VAS cabinets • Devices VAS: BOSCH - PAVIRO • Fans, thermostat, batteries, wheels • Power supplies for VAS • Safety contact strip • 230VAC voltage distribution terminal • Indication panel • Firefighter's microphone power supply unit • Enclosure of firefighter's microphone • Power adapter of firefighter's microphone • Ethernet communication • Configuration software for DSOP24V - Bosch PAVIRO 	

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Power supply units for DIN rail

DINB series

59



- buffer power supply units 13,8VDC / 27,6VDC

Plug-in and desktop type power supplies

PSA series

60



- 12VDC plug-in type

PSD series

61



- 12VDC / 15VDC / 52VDC desktop type

PSR series

61



- desktop type with adjustable output voltage 12÷15VDC

PSC series

62



- 12VDC / 13,8VDC
- hermetic enclosure IP67
- epoxy encapsulated

PSCL series

63



- switch mode 12VDC
- hermetic enclosure IP67
- epoxy encapsulated

PSP series

64



- PoE Power Supply
- 52VDC desktop type

Desktop type buffer power supplies

PSCLB series

65



- 13,8VDC
- buffer power supply unit 13,8VDC
- hermetic enclosure IP67
- epoxy encapsulated

Accessories for CCTV cameras - HD cameras

Transmitters, converters

66



Accessories for CCTV cameras - IP cameras

Adapters / Splitters

66



SFP fiber optic modules for switches of SF..., SFG..., ISFG..., ISF... series

48



- fiber type: single mode (SM) / multimode (MM)
- optical connector Type: LC / SC

Extenders PoE

67



- increases Ethernet and PoE power range by 100 meters

Extenders PoE - hermetic enclosure IP56

68



- increases Ethernet and PoE power range by 100 meters
- hermetic enclosure IP56

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Buffer power supply modules

MSRK series

69



- power supply 20-22VAC
- buffer, switch mode 13,8VDC
- compliant with standards:
 - alarm system EN50131-6 for grades 1, 2 (Grade 1, 2);
 - access control EN60839-11 for grades 1, 2 (Grade 1, 2)

DC/DC power converter modules

DC/DC series

70



- step down
- step up
- step down and step up

DCDC...H series

71



- step down
- hermetic enclosure IP67
- epoxy encapsulated

DC/DC series

71



- step down
- in plastic enclosure

Voltage reducers

RN series

72

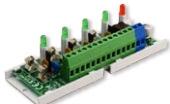


- reduce voltage:
 - 13,8VDC → 12VDC

Fuse modules, protection modules

Distribution modules

73



- PTC
- glass fuse
- with technical outputs

Distribution modules in plastic enclosures

74



- PTC
- glass fuse

Straight-through

74



- 230VAC - glass fuse (galvanic separation of each output)

Relay and time modules

Relay modules

75



- AC/DC supply, fuse in C/NO/NC relay circuit
- DC power, fuse in coil circuit
- DC power, without fuse

Relay modules with T -, T + control inputs

76



- DC power, without fuse

Time modules

76



- multi-function relay - C/NO/NC - 230VAC
- with OC output
- with relays - C/NO/NC - 30VDC

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Transformers

TRP, TRZ, EI series, others

77



- range: 10VA÷80VA

Panic alarm buttons

Foot-operated panic button

78



- PN series

Accessories

Modules

79



- module for conversion technical outputs (OC type) into technical outputs of relay type (C/NO/NC)
 - dedicated to power supply units of AWZG2 series

Accessories

123



- connectors
- cables
- tamper switches
- locks
- DIN rail brackets
- mounting elements
- others

Mean Well products



Power supply units

125



- enclosed
- for DIN rail
- buffer
- for LED lighting

Power converters

124



- DC/AC
 - with full sinusoid
 - with modified sinusoid
- DC/DC

Battery chargers


125





- 12V / 24V / 48V
- Charger with capacity from 120W to 1000W

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Enclosures for alarm control panels Surface-mounted


Standard - fitted with transformer of TRP series	80
 <ul style="list-style-type: none">• Universal• SATEL• PARADOX• RISCO• DSC	

GRADE 3 - fitted with transformer of TRP / TRZ series	81
 <ul style="list-style-type: none">• SATEL• PARADOX	

Two-level - fitted with transformer of TRP series	82
 <ul style="list-style-type: none">• Universal	

With power supply of LRS series	82
 <ul style="list-style-type: none">• RISCO	


Empty - without transformer	83
 <ul style="list-style-type: none">• Universal• SATEL• PARADOX	

Empty - without transformer - GRADE 3	84
 <ul style="list-style-type: none">• SATEL	

Enclosures for alarm control panels Flush-mounted


Empty - without transformer	84
 <ul style="list-style-type: none">• Universal	

Enclosures for expanders Surface-mounted

Standard	85
 <ul style="list-style-type: none">• Universal• SATEL• BOSCH	

GRADE 3	85
 <ul style="list-style-type: none">• Universal• SATEL	

Enclosures for keypads

	86
 <ul style="list-style-type: none">• surface-mounted• flush-mounted	

Enclosures for GSM transmitters

	87
 <ul style="list-style-type: none">• GSM	

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Enclosures for Access Control Systems

88



- BOSCH
- Nedap

Enclosure for VAS (Voice Alarm Systems)

90



- enclosure for loudspeaker line supervision system by BOSCH

Enclosures for batteries

91



- surface mounted
- DIN rail mounted

Enclosures for power supply units

92



- Pulsar: PS series
- Mean Well: LRS, RS, RSP series

Enclosures for CCTV recorders

93



- horizontal
- vertical
- vertical – with space for monitor

Enclosures with DIN rails

96



- surface-mounted

Teletechnical enclosures

97



- residential – surface mounted – TOM
- residential – flush mounted – TOM
- universal with plywood – TUN

Fire protection installation boxes

99



- straight-through boxes
- distribution boxes
- distribution boxes protected by fuses

Others

100



- enclosure with cable frame
- fire safety instructions box
- enclosure for evacuation door key

Plastic enclosures – hermetic IP65

101



- with mounting plate – AWO series
- without mounting plate – AWP series

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RACK 19" cabinets

RWA series - wall mounted, ready-to-assemble **103**



- 600 × 450
- 600 × 600
- 6U / 9U / 12U

RW series - wall mounted, fully assembled **104**



- 600 × 450
- 600 × 600
- 6U / 9U / 12U / 15U

RWD series - double section - fully assembled **105**



- 600 × 600
- 6U / 9U / 12U

RS series - floor standing, ready-to-assemble **106**



- 600 × 600
- 600 × 800
- 600 × 1000
- 800 × 800
- 800 × 1000
- 15U / 22U / 27U / 42U

ZRS series - floor standing, fully assembled **107**



- 600 × 600
- 600 × 800
- 600 × 1000
- 15U / 22U / 27U / 42U

Accessories for RACK 19" cabinets

Enclosure for alarm control panel - vertical **108**



- mounting dimensions:
 - 19" × 7U

Enclosures for alarm control panel - horizontal, sliding **109**



- mounting dimensions:
 - 19" × 2U
 - 19" × 4U

ARAD enclosures **110**



- mounting dimensions:
 - 19" × 1U
 - 19" × 2U
 - 19" × 3U
 - 19" × 4U

Drawers **111**



- mounting dimensions:
 - 19" × 2U
 - 19" × 3U
 - 19" × 4U

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Accessories for RACK 19" cabinets

Enclosures with DIN rail

112



- mounting dimensions:
 - 19" × 3U
 - 19" × 4U

Battery enclosures

118



- mounting dimensions:
 - 19" × 2U

Fixed shelves, sliding shelves

113



- mounting dimensions:
 - 19" × 1U
 - 19" × 2U

Sliding rails

114



- constant
- sliding

Patch panels - Cat. 5e and 6 - UTP / FTP

115



- mounting dimensions:
 - 19" × 1U

Fans

116



- mounting dimensions:
 - 19" × 1U

Fans with thermostat

116



- mounting dimensions:
 - 19" × 1U

Thermostats

117



- mounting dimensions:
 - 19" × 1U

Power distribution units

117



- mounting dimensions:
 - 19" × 1U

Lighting

118



- mounting dimensions:
 - 19" × 1U

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Accessories for RACK 19" cabinets

Blanking panels

118



- mounting dimensions:
 - 19" × 1U
 - 19" × 2U
 - 19" × 3U
 - 19" × 4U

Patch panel frames

119



- mounting dimensions:
 - 19" × 1U

Cable management panels

119



- mounting dimensions:
 - 19" × 1U

Brush grommets

120



- mounting dimensions:
 - 19" × 1U

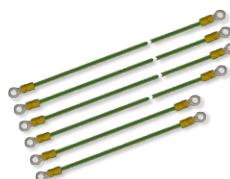
Tampers - tampering protectors

120



Grounding wires

121



Plinths

121



Casters, leveling feet

122



Locks, screws

122



Other accessories

123



About us

PULSAR is company established in 1994. Its main profile is production of equipment and accessories for alarm, access control and CCTV systems. Currently, our production halls, warehouse and others plant departments cover 7000m².

Our company employs more than 250 people with high professional qualifications, working in each of following departments: production, construction and technological, marketing and administration. These allow us to ensure constant high quality of products and provided services.

Today, PULSAR is Polish leader in its sector, and has many clients in Europe, Middle East, USA and Africa. Company position in market is result of high quality and reliability of our products, experience and excellent customer service. Corporation policy ensures continuous increase in sales and expansion into new markets.

Firm has been gradually extending training range and actively participates in fairs and trade events (e.g. SECUREX, IFSEC, ENERGETAB, ROMANIAN SECURITY FAIR, SICUREZZA, INTERSEC, NEW SECURITY, SAFETY EXPO, AUTOMATICON, SECURITY EXPO, INDELEX, SECTECH, SICUR, MIPS, SECUREXPO, EXPOPOWER), due to contacts with our customers and buyers.

SICUREZZA 2021 – ITALY



SAFETY EXPO 2019 – ITALY



EXPOPROTECTION 2018 – FRANCE



SECURITY ESSEN 2018 – GERMANY



Products

PULSAR has been continuously extending its product range. New designs are result of thorough analysis of market needs and consultations with business partners. New products are being developed by our qualified Design Department engineering staff, who takes into account distributors' and fitters' comments and opinions in their designs.

Current product mix of our company includes:

Metal enclosures



- for I&HAS alarm systems
- for monitoring systems
- for access control
- for CCTV

Power supply units



- multi-output
- buffer
- hermetic
- 24VAC

Metal enclosures with DIN rail



- with DIN rails
- with DIN rails / RACK profiles

PoE switches



- standard
- for DIN rails / industrial
- with RACK 19" brackets

Teletechnical enclosures



- universal for households
- universal with plywood

Power supply systems for PoE switches



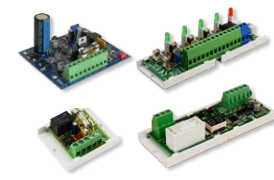
- SWS series
- SWB series
- enclosures with recorder space

RACK 19" cabinets and accessories



- wall mounted cabinets
- floor standing cabinets
- PoE switches
- enclosures
- others

Modules



- buffer power supplies
- DC/DC voltage converters
- voltage reducers
- fuse modules
- protection modules
- time modules

Buffer power supply units



- universal - 13,8 / 27,6 / 54VDC
- compliant with EN50131-6 standard for alarm systems
- certified with EN54-4 standard for fire detection

AC/AC transformer



- TRP series - IP30
- TRZ series - IP43
- EI series
- others

Power supply units



- enclosed
- 24VAC
- open frame

Accessories



- for enclosures
- for power supply units

We are an authorized distributor of Mean Well brand
Product offer is available at www.pulsar.pl/meanwell



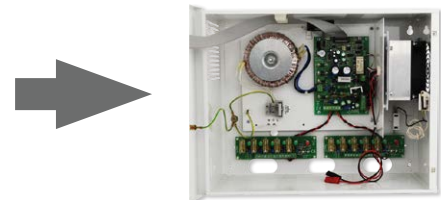
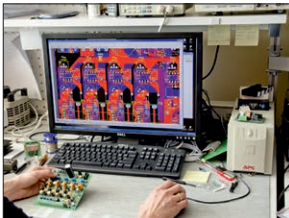
Available on request (OEM / ODM)

Our company undertake and comprehensively implements individual designs of metal enclosures and power supply units according to needs, specifications and designs submitted by our clients. Purpose for carrying out individual designs is to ensure client's maximum satisfaction. Therefore, rule we have approved as basis of our activity is to meet our clients' requirements so that they are fully satisfied with product and contact with our company.

Enclosures



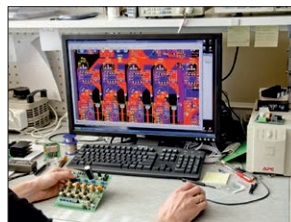
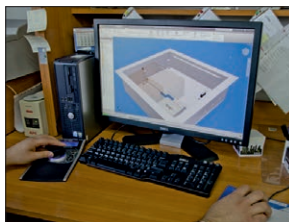
Power supplies & Electronics



Design Department

Construction and Technological Department of our company is responsible for issues of product designs, selection and quality of employed materials, production technology for accessories, and preparing individual designs. We own suitable tooling and developed machinery stock, which allows us to implement both our own and external designs.

Design department



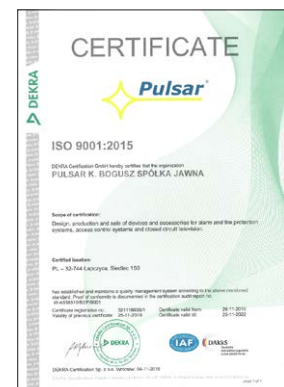
EMC laboratory



Quality - ISO 9001

In concern for product quality, our production process is based exclusively on highest quality components supplied by reliable distributors. Devices are subjected to repeated checks during each production stage. Having in mind legal and functional aspects, equipment is put through LVD and EMC tests in accredited research laboratories.

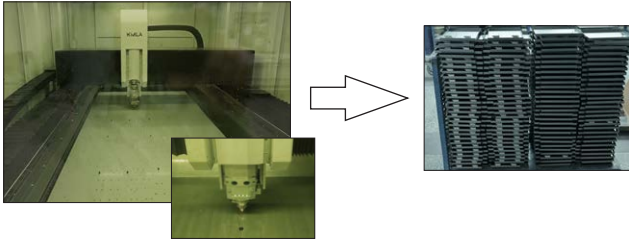
This is proven by valid CE certificates and certificates confirming equipment compliance with EN 50131 standard for alarm systems issued for selected products. High functional and technical quality is proven by our clients' opinions. Having obtained quality management system certificate ISO 9001, our company guarantees proper quality policy.



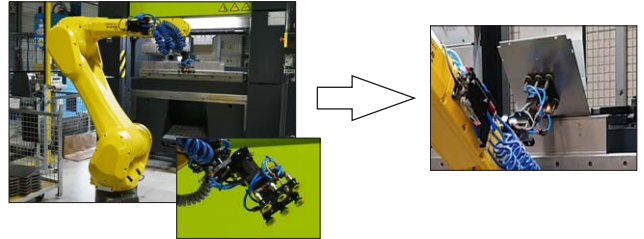
Machinery stock

PULSAR has been continuously modernising its machinery stock in order to improve quality of products, extend product mix and services, and reduce production costs. Currently, we have following machines and facilities:

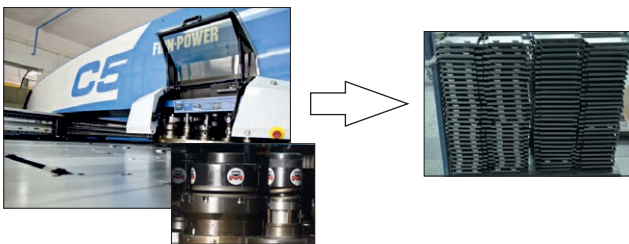
Lasser cutter



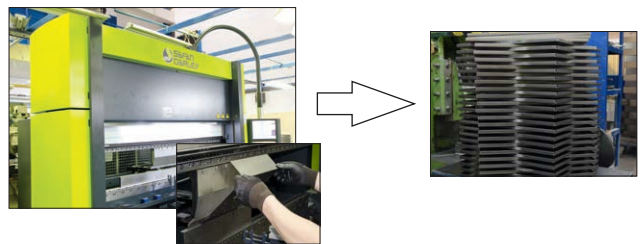
Industrial robot



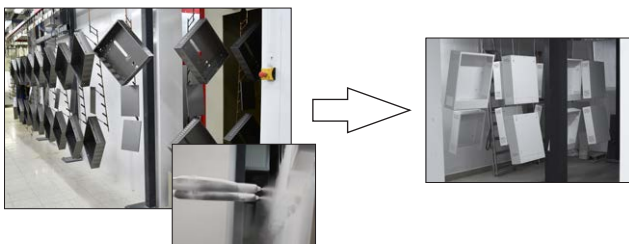
FINN-POWER numerical cutters



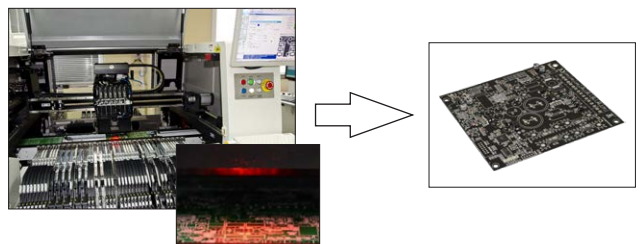
Press brakes, eccentric



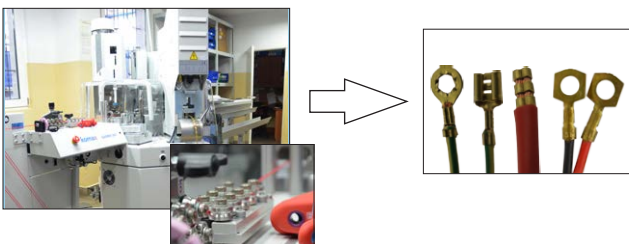
Powder coating line



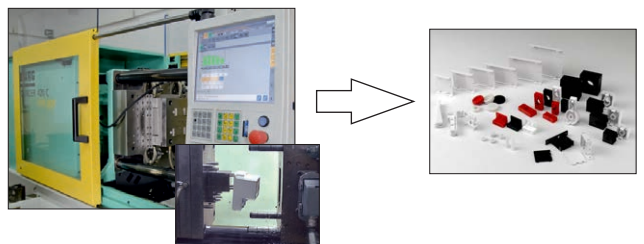
SMD (Surface Mounted Devices) assembly stations



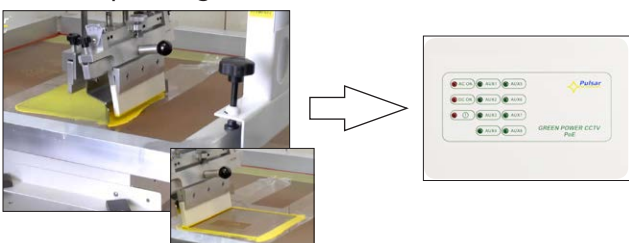
Wire processing machine



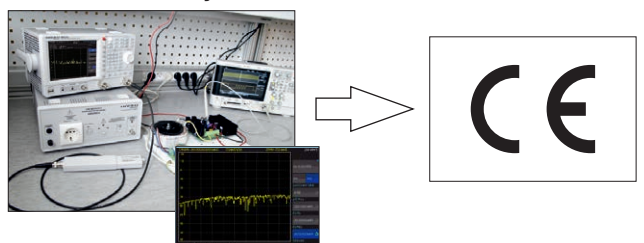
Injection moulding machines



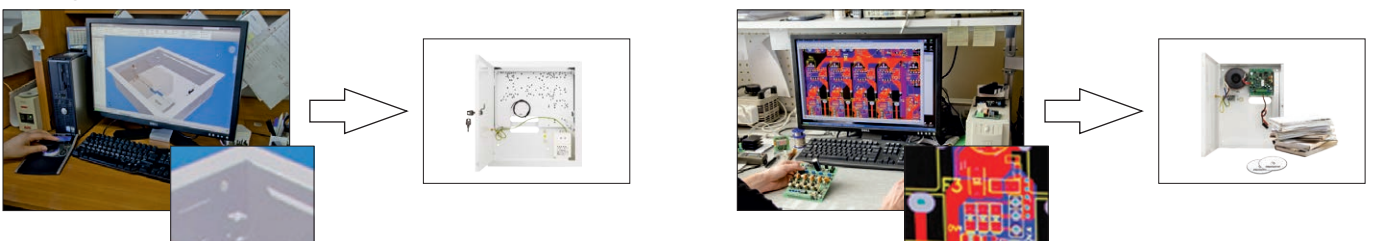
Screen printing



EMC laboratory



Design software: CAD "INVENTOR", ALTIUM DESIGNER



Buffer switch mode power supply units 13,8VDC / 27,6VDC / 54VDC HPSB series

- power supply: 200÷240VAC
- impulse voltage stabilizer
- deep discharge battery protection (UVP)
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - OVP overvoltage protection
 - surge protection
 - antisabotage protection (unwanted enclosure opening)
- notes:
 - surface mounted enclosure, closing - screwed (lock assembly possible)
- warranty: 2 years from production date



Sample product:
HPSB-12V7A-C



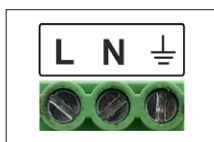
LED optical indication



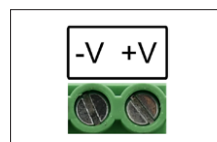
Tamper switch indicating enclosure opening - 1 piece



Closing - screwed - 2 pieces



Power input terminals

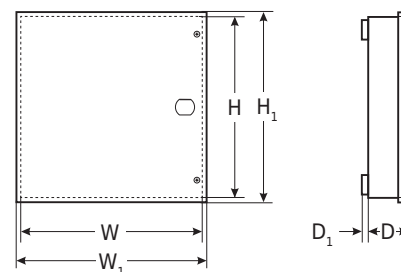


Power output terminals



Spacers (plastic) 8mm / 14mm

Code	Output voltage	Total current	Battery charging current	Fitting batteries	Mounting plate	Dimensions W×H×D+D ₁ [± 2mm]
HPSB-12V2A-B	13,8VDC	2,5A	0,5A	7Ah	—	175×185×82+8
HPSB-12V3A-B		3,5A	0,5A	7Ah	—	205×237×82+8
HPSB-12V3A-C		3,5A	0,5A	17Ah	—	237×305×82+8
HPSB-12V5A-C		5,5A	0,5A / 1A	17Ah	—	
HPSB-12V7A-C		7A	1A / 2A	17Ah	BM2	305×305×105+8
HPSB-12V10A-C		10A	1A / 4A	17Ah	BM2	
HPSB-12V15A-D		15A	2A / 4A	40Ah	BM1	335×385×173+14
HPSB-12V20A-E		20A	2A / 4A / 8A	65Ah	BM1	465×395×173+14
HPSB-24V2A-B	27,6VDC	2,2A	0,2A / 0,5A	2×7Ah	—	237×305×82+8
HPSB-24V3A-B		3,5A	0,5A / 1A	2×7Ah	BM2	305×305×105+8
HPSB-24V5A-C		5A	0,5A / 2A	2×17Ah	BM1	335×385×173+14
HPSB-24V7A-C		7A	1A / 2A	2×17Ah	BM1	
HPSB-24V10A-D	10A	1A / 2A / 4A	2×40Ah	BM1	465×395×173+14	
HPSB-48V3A-B	54VDC	3A	0,5A / 1A	4×7Ah	BM1	335×385×173+14
HPSB-48V5A-C		5A	0,5A / 1A / 2A	4×17Ah	BM1	465×395×173+14



Accessories:



BM1 / BM2
Mounting plate



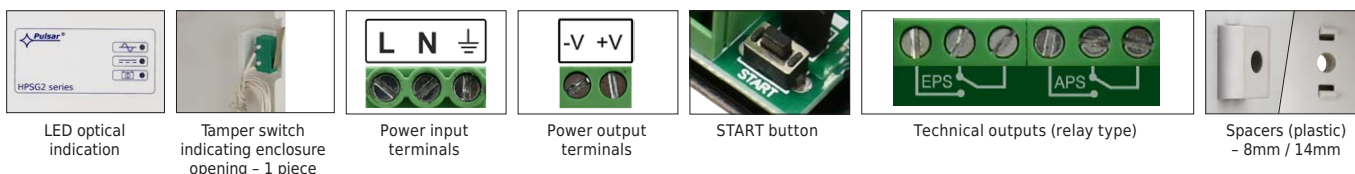
Buffer switch mode power supply units 13,8VDC / 27,6VDC

Compliant with EN50131-6 standard for alarm systems - GRADE 1, 2
 Compliant with EN60839-11 standard for access control - GRADE 1, 2
HPSG2 series

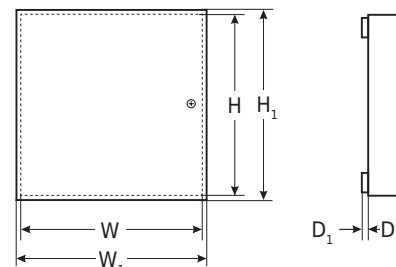
- power supply: 200÷240VAC
- impulse voltage stabilizer
- compliant with norm EN50131-6:2017 in grade 1, 2, EN60839-11:2013 in grade 1, 2 and II environment class
- automatic battery test
- technical outputs relay type:
 - EPS - 230V power failure AC
 - APS - battery failure
- function START allows running PSU from battery circuit
- deep discharge battery protection (UVP)
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - OVP overvoltage protection
 - surge protection
 - antisabotage protection (unwanted enclosure opening)
- warranty: 2 years from production date



Sample product:
HPSG2-12V7A-C



Code	Output voltage	Output current	Battery charging current	Fitting batteries	Mounting plate	Dimensions W×H×D+D ₁ [±2mm]
HPSG2-12V2A-B	13,8VDC	2,5A	0,5A / 1A	7Ah	—	205×237×82+8
HPSG2-12V3A-C		3,5A	0,5A / 1A	17Ah	—	237×305×82+8
HPSG2-12V5A-C		5A	1A / 2A	17Ah	—	
HPSG2-12V7A-C		7A	1A / 2A	17Ah	—	
HPSG2-12V7A-D		7A	1A / 2A	40Ah	BM1	
HPSG2-12V10A-D		10A	1A / 4A	40Ah	BM1	
HPSG2-12V20A-E		20A	2A / 4A / 8A	65Ah	BM1	465×395×173+14
HPSG2-24V2A-B	27,6VDC	2,5A	0,5A / 1A	2×7Ah	—	237×305×82+8
HPSG2-24V3A-B		3,5A	0,5A / 1A	2×7Ah	BM2	305×305×105+8
HPSG2-24V3A-C		3,5A	0,5A / 1A	2×17Ah	BM1	335×385×173+14
HPSG2-24V5A-C		5A	1A / 2A	2×17Ah	BM1	
HPSG2-24V5A-D		5A	1A / 2A	2×40Ah	BM1	465×395×173+14
HPSG2-24V10A-D		10A	1A / 2A / 4A	2×40Ah	BM1	



Accessories:



BM1 / BM2
Mounting plate



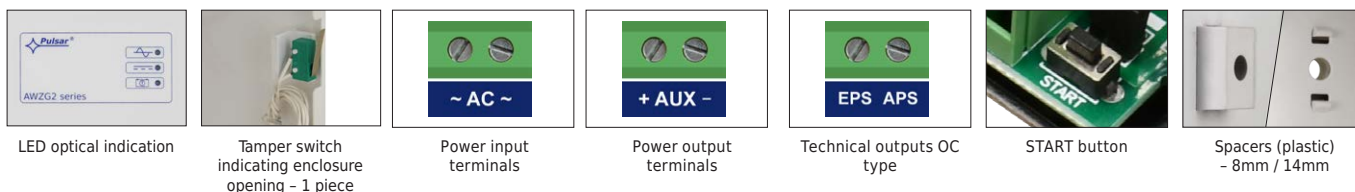
Buffer switch mode power supply units (transformer type) - 13,8/27,6VDC

Compliant with EN50131-6 standard for alarm systems - GRADE 1, 2
 Compliant with EN60839-11 standard for access control - GRADE 1, 2
AWZG2 series

- power supply: 230VAC
- microprocessor-based automation system
- compliant with norm EN50131-6 in grade 1, 2, EN60839-11:2013 in grade 1, 2 and II environment class
- automatic battery test
- battery voltages control
- technical outputs OC type:
 - EPS - 230V power failure AC
 - APS - battery failure indication
- function START allows running PSU from battery circuit
- deep discharge battery protection (UVP)
- possibility of using AWZ639 - technical outputs relay type
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - antisabotage protection (unwanted enclosure opening)
- warranty: **5 years from production date**



Sample product:
AWZG2-12V2A-B

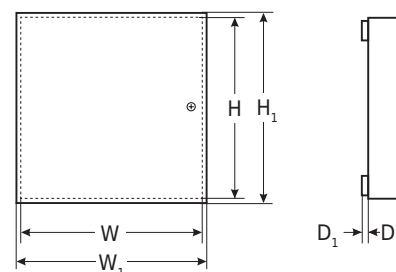


Code	Output voltage	Output current	Battery charging current	Fitting batteries	Dimensions W×H×D+D ₁ [+/- 2mm]
AWZG2-12V2A-B	13,8VDC	2A	0,2A / 0,5A	7Ah	205×237×82+8
AWZG2-12V3A-C		3A	0,5A / 1A	17Ah	235×305×82+8
AWZG2-12V5A-C		5A	0,5A / 1A / 2A	17Ah	305×305×105+8
AWZG2-12V5A-D		5A	0,5A / 1A / 2A	40Ah	335×385×173+14
AWZG2-24V2A-B	27,6VDC	2A	0,5A / 1A	2×7Ah	205×305×82+8
AWZG2-24V3A-C		3A	0,5A / 1A	2×17Ah	335×385×173+14

Accessories:



AWZ639
 Technical outputs - relay
 (2x OC + 2x NO/NC/C)



Buffer switch mode power supply units 13,8VDC / 27,6VDC, in accordance with EN50131-6, GRADE 1÷3 standard for alarm systems PSBEN series

BLACK POWER

- power supply: 230VAC
- impulse voltage stabilizer
- microprocessor-based operating control
- in accordance with EN50131-6, GRADE 1÷3 standard for alarm systems and II environmental class
- intelligent management of PSU power's output stage
- battery circuit continuity control
- battery fuse status control
- collective failure input EXT IN
- technical outputs with galvanic isolation:
 - EPS - 230V power failure AC
 - PSU - power supply failure
 - APS - battery failure indication
- deep discharge battery protection (UVP)
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - OVP overvoltage protection
 - OHP overheat protection
 - surge protection
 - antisabotage protection (unwanted enclosure opening and detachment from mounting surface)
- possibility of remote control operation of power supply by free program and Power Security application
- warranty: **5 years from production date**



In accordance with EN50131-6,
GRADE 1÷3 standard for alarm
systems

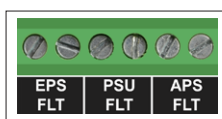
**MTP Gold Medal
Securex 2014**



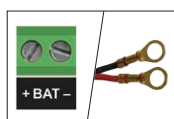
Tamper switch
indicating enclosure
opening - 1 piece



Tamper - detachment
from wall - 1 piece



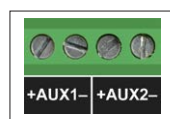
Technical outputs with
galvanic isolation



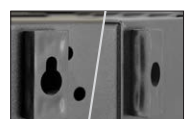
Battery connectors



Collective failure input
EXT IN



DC power supply
output



Spacers (plastic) - 8mm

Buffer switch mode power supply units 13,8VDC / 27,6VDC, in accordance with EN50131-6, GRADE 1÷3 standard for alarm systems PSBEN series

BLACK POWER



LED display



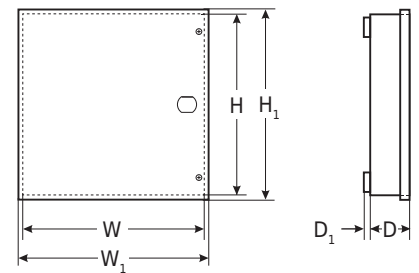
graphic LCD display

Code		Output voltage	Total current	Battery charging current	Fitting battery	Dimensions W×H×D+D ₁ [+/- 2mm] W ₁ ×H ₁ [+/- 2mm]
LED panel	LCD panel					
PSBEN3012C	—	13,8VDC	3,2A	0,2A / 0,6A / 1,0A / 1,5A	17Ah	300×300×92+8 305×305
PSBEN5012C	—		5,6A	0,6A / 1,5A / 2,2A / 3,0A	17Ah	330×350×102+8 335×355
PSBEN5012D	PSBEN5012D/LCD		5,6A	0,6A / 1,5A / 2,2A / 3,0A	40Ah	330×350×173+8 335×355
PSBEN10A12E	PSBEN10A12E/LCD		10,6A	0,6A / 1,5A / 2,2A / 3,0A	65Ah	400×370×173+8 405×375
PSBEN5024C	PSBEN5024C/LCD	27,6VDC	5,6A	0,6A / 1,5A / 2,2A / 3,0A	2×17Ah	400×350×92+8 405×355

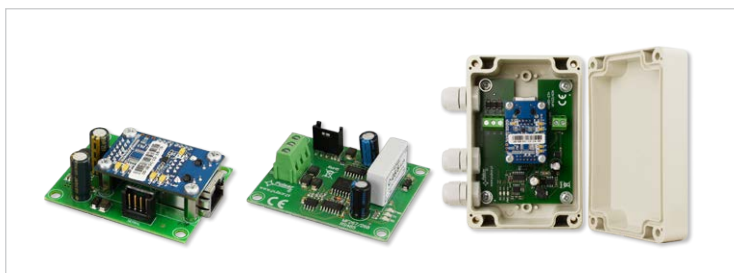


Free program „PowerSecurity”

Program for remote monitoring of parameters
of power supplies of PSBEN



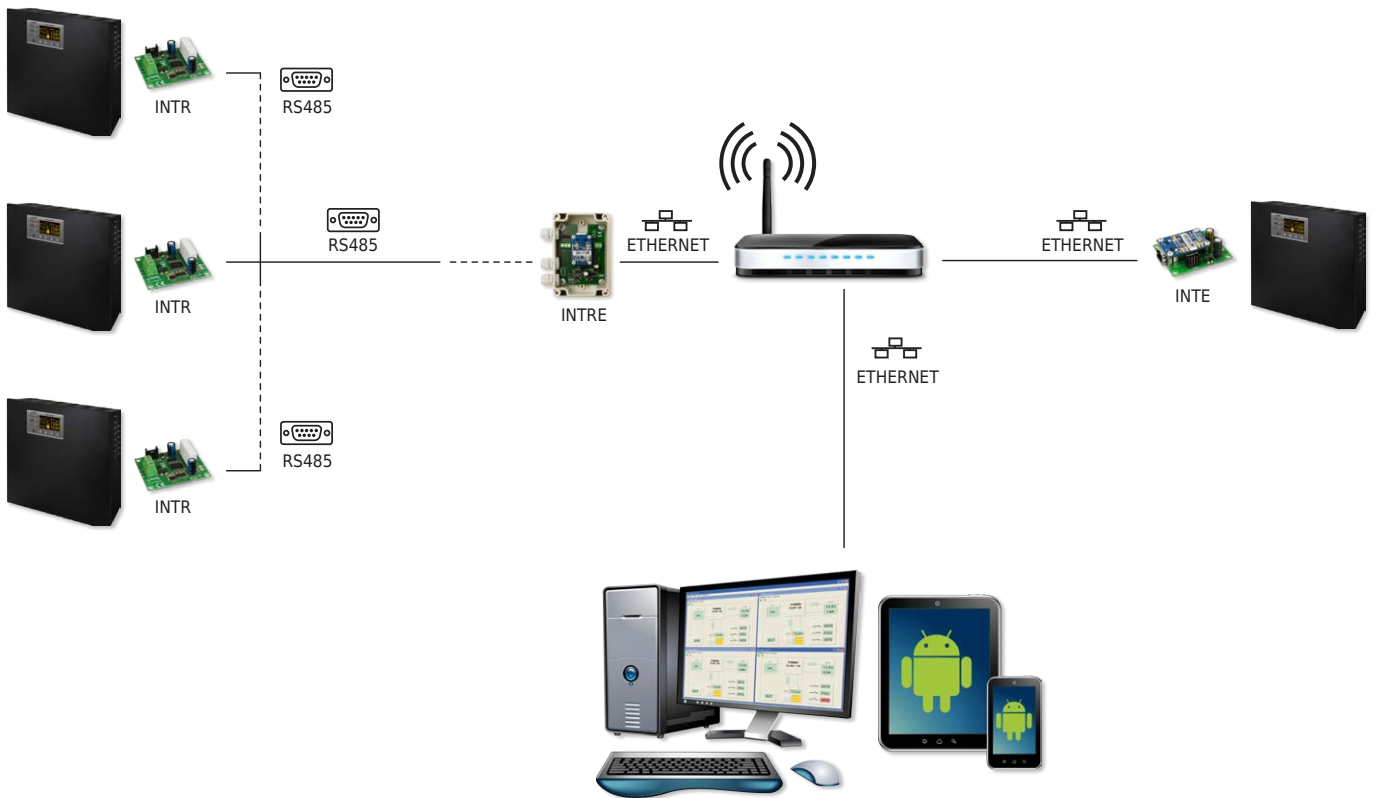
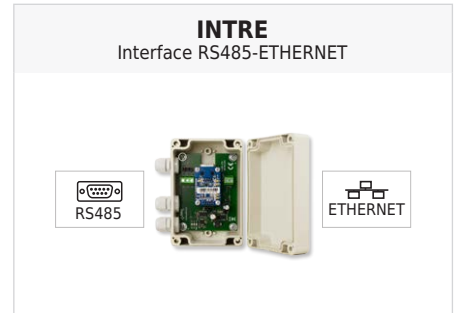
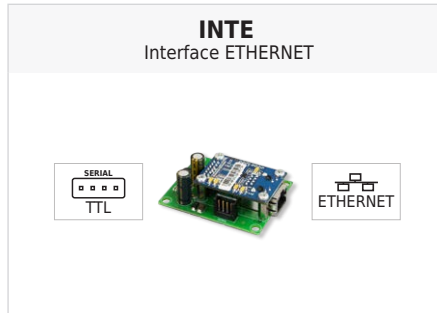
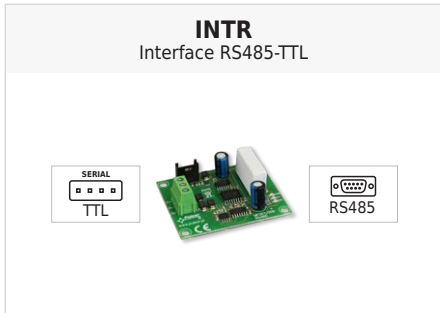
Accessories:



Interfaces (LAN, RS485)

Accessories for power supply units of PSBEN series

Interfaces



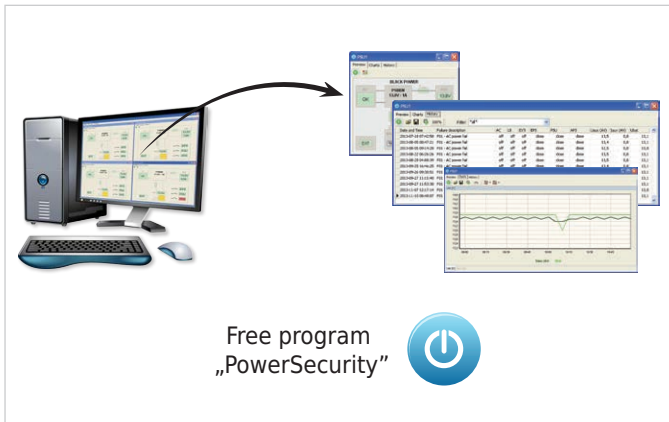
Free program
„PowerSecurity”



„PowerSecurity”
- also available for Android

„PowerSecurity” software for power supply units of PSBEN series

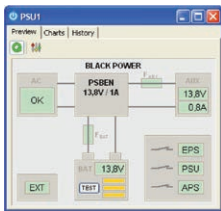
PowerSecurity



For power supply units with LED display

Remote desktop window of PSU

Event log



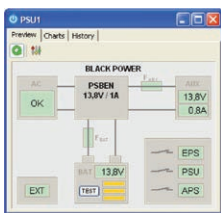
Time from event	Failure description	Uaux	Iaux
12h 30m*	F01 - AC power fail	13,1	0,8
4h 54m	F01 - AC power fail	13,1	0,8
4h 54m	F01 - AC power fail	13,1	0,8
4h 54m	F01 - AC power fail	13,1	0,8
4h 53m*	F01 - AC power fail	13,1	0,8
4h 42m	F10 - Low battery voltage	11,3	0,7
4h 37m	F11 - Low battery volt. - off	9,8	0,7
2h 44m	F01 - AC power fail	13,1	0,8
2h 44m	F01 - AC power fail	13,1	0,8
0h 34m	F01 - AC power fail	13,1	0,8
0h 32m	F01 - AC power fail	13,1	0,8

For power supply units with LCD display

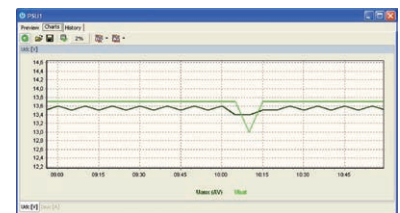
Remote desktop window of PSU

Event log

History of parameters



Date and Time	Failure description	AC	IB	EXTi	EPS	PSU	APS	Uaux (AV)	Iaux (AV)	Ibat
2013-07-18 07:42:59	F01 - AC power fail	off	off	off	close	close	close	13,5	0,8	13,1
2013-08-05 08:47:21	F01 - AC power fail	off	off	off	close	close	close	13,4	0,8	13,1
2013-08-08 09:14:28	F01 - AC power fail	off	off	off	close	close	close	13,5	0,8	13,0
2013-08-22 06:26:26	F01 - AC power fail	off	off	off	close	close	close	13,5	0,8	13,1
2013-08-28 04:08:39	F01 - AC power fail	off	off	off	close	close	close	13,5	0,8	13,1
2013-08-28 16:46:25	F01 - AC power fail	off	off	off	close	close	close	13,4	0,8	13,1
2013-09-26 09:26:51	F01 - AC power fail	off	off	off	close	close	close	13,5	0,8	13,1
2013-09-27 11:11:40	F01 - AC power fail	off	off	off	close	close	close	13,5	0,8	13,1
2013-09-27 11:53:30	F01 - AC power fail	off	off	off	close	close	close	13,5	0,8	13,1
2013-11-07 12:17:14	F01 - AC power fail	off	off	off	close	close	close	13,4	0,8	13,0
2013-11-10 08:08:07	F01 - AC power fail	off	off	off	close	close	close	13,5	0,8	13,1



PowerSecurity is program allowing remote monitoring of power supply units of PSBEN series equipped with communication interface. Application allows to configure connections, analyze current parameters and manage groups of power supply units.

Power supply units of PSBEN series

For power supply units of PSBEN series, remote desktop window allows monitoring following parameters:

- voltage and current at AUX output of power supply units
- 230V main supply status
- voltage and battery charging level (optional remote battery test)
- status of technical outputs (EPS, PSU, APS)
- status of input collective failure - EXTi

Additionally, it is possible to read history of events and in case of power supply units fitted with LCD display to read, history of parameters.

Buffer switch mode power supply units 27,6VDC EN54-4 and EN12101-10 certified EN54C series

RED POWER plus

- available versions with 2A / 3A / 5A / 10A current efficiencies
- available versions with battery compartment for 7Ah - 65Ah battery
- communication: LAN, RS485 - appropriate modules required - only version with LCD graphic display
- cooperation with EN54C-LB4 and EN54C-LB8 fuse modules (optional)
- cooperation with EN54C-LS4 and EN54C-LS8 sequential modules (optional)
- power supply: 230V
- impulse voltage stabilizer
- microprocessor-based operating control
- certified with EN54-4 and EN12101-10 standards
- **certificate of constancy of performance CNBOP-PIB No 1438-CPR-0628**
- **certificate of approval CNBOP-PIB No 3501/2019**
- independently protected outputs AUX1 and AUX2
- monitoring of continuity of battery circuit
- relay type output of collective failure ALARM
- input of external failure indication EXTi
- **EPS relay type output of 230VAC power failure indication**
- **LoB low battery voltage indication**
- deep discharge battery protection (UVP)
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - OVP overvoltage protection
 - surge protection
 - antisabotage protection (unwanted enclosure opening)
- warranty: **3 years from production date**



Certificate of constancy of performance
CNBOP-PIB No 1438-CPR-0628

Certificate of approval
CNBOP-PIB No 3501/2019



Tamper switch
indicating enclosure
opening - 1 piece



Lock



EPS relay type output
of 230VAC power failure
indication



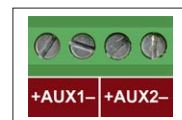
Relay type output of
collective failure ALARM



Input of external failure
indication EXTi



Battery connectors



Independently protected
outputs
AUX1 and AUX2

Buffer switch mode power supply units 27,6VDC EN54-4 and EN12101-10 certified EN54C series

RED POWER plus



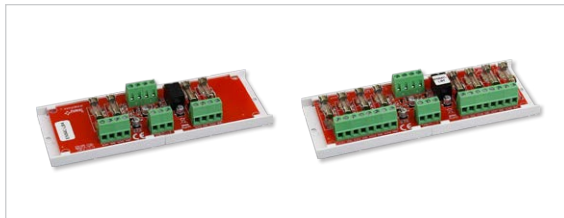
LED display



graphic LCD display

Code		Output voltage	Total current		Fitting battery	Dimensions W×H×D+D ₁ [± 2mm] W ₁ ×H ₁ [± 2mm]
LED panel	LCD panel		for continuous operation I _{max a} + I _{lad}	for intermittent operation I _{max a} + I _{lad}		
EN54C-2A7	—	27,6VDC	1,6A + 0,4A	2A + 0A	2×7Ah	330×305×82+8 335×308
EN54C-2A17	—		1,2A + 0,8A	2A + 0A	2×17Ah	385×402×88+8 390×406
EN54C-3A7	—		2,6A + 0,4A	3A + 0A	2×7Ah	330×305×82+8 335×308
EN54C-3A17	EN54C-3A17LCD		2,2A + 0,8A	3A + 0A	2×17Ah	385×402×88+8 390×406
EN54C-3A28	—		1,8A + 1,2A	3A + 0A	2×28Ah	420×407×178+8 425×411
EN54C-5A7	—		4,6A + 0,4A	5A + 0A	2×7Ah	330×305×82+8 335×308
EN54C-5A17	EN54C-5A17LCD		4,2A + 0,8A	5A + 0A	2×17Ah	385×402×88+8 390×406
EN54C-5A28	—		3,8A + 1,2A	5A + 0A	2×28Ah	420×407×178+8 425×411
EN54C-5A40	EN54C-5A40LCD		3,2A + 1,8A	5A + 0A	2×40Ah	410×648×180+8 416×652
EN54C-5A65	—		2,4A + 2,6A	5A + 0A	2×65Ah	410×648×180+8 416×652
EN54C-10A17	EN54C-10A17LCD		9,2A + 0,8A	10A + 0A	2×17Ah	385×402×88+8 390×406
EN54C-10A28	—		8,8A + 1,2A	10A + 0A	2×28Ah	420×407×178+8 425×411
EN54C-10A40	EN54C-10A40LCD		8,2A + 1,8A	10A + 0A	2×40Ah	410×648×180+8 416×652
EN54C-10A65	—		7,4A + 2,6A	10A + 0A	2×65Ah	410×648×180+8 416×652

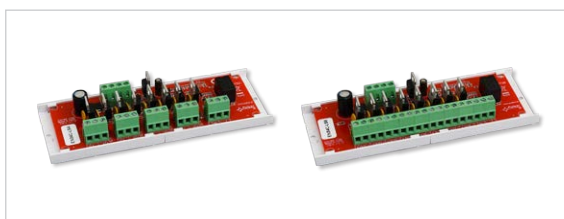
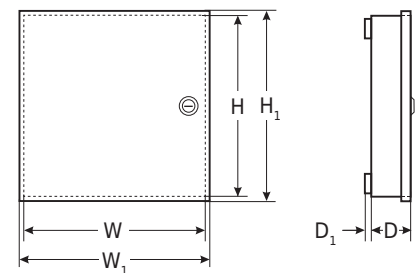
Accessories:



Fuse modules
EN54C-LB4, EN54C-LB8



Set of brackets
EN54C-BR



Sequential modules
EN54C-LS4, EN54C-LS8

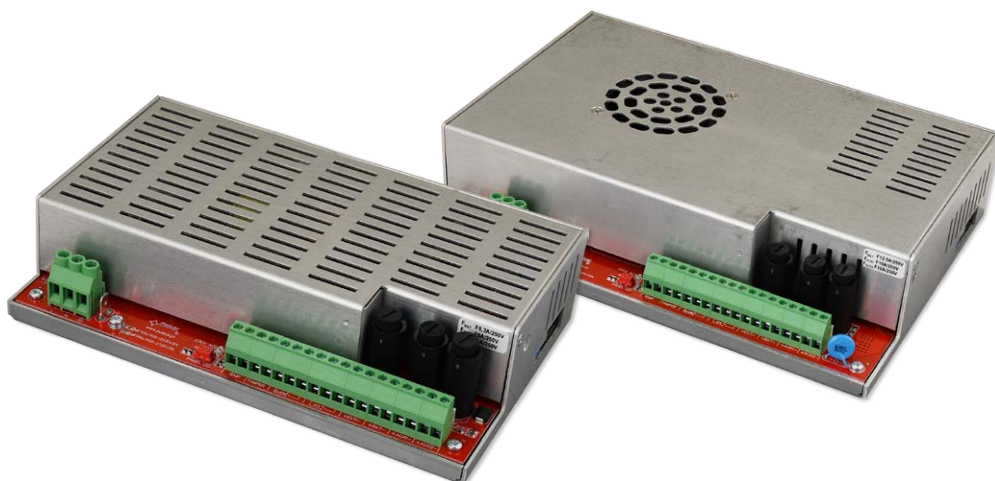


Interfaces (LAN, RS485)
– only for EN54C...LCD series

Buffer switch mode power supply modules 27,6VDC in accordance with EN54-4 standard for fire detection EN54M series

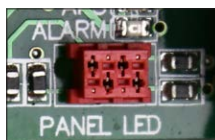
RED POWER plus

- available versions with 2A / 3A / 5A / 10A current efficiencies
- powered by 7Ah÷65Ah batteries
- cooperation with EN54-LB4 and EN54-LB8 fuse modules (optional)
- cooperation with EN54C-LS4 and EN54C-LS8 sequential modules (optional)
- DIN rail mounting using EN54M-DIN1 bracket (optional)
- optical indication - EN54M-LED panel (optional)
- power supply: 230V
- impulse voltage stabilizer
- microprocessor-based operating control
- in accordance with EN54-4 and EN 12101-10 standards
- **certificate of constancy of performance CNBOP-PIB No 1438-CPR-0630**
- independently protected outputs AUX1 and AUX2
- monitoring of continuity of battery circuit
- relay type output of collective failure ALARM
- **input of external failure indication EXTi**
- **EPS relay type output of 230VAC power failure indication**
- **LoB low battery voltage indication**
- deep discharge battery protection (UVP)
- protections:
 - SCP short circuit protection, OLP overload protection
 - OVP overvoltage protection, surge protection
- warranty: **3 years from production date**



Certificate of constancy of performance
CNBOP-PIB No 1438-CPR-0630

To be able to install module of PSU in fire alarm system, it must be placed
in enclosure of appropriate design and make complementary examinations to achieve certificate
EN54-4+A1+A2 or EN12101-10+AC in accredited institution



LED optical indication
connector



EPS relay type output
of 230VAC power failure
indication



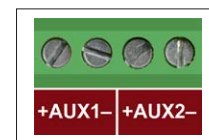
Relay type output of collective
failure ALARM



Input of external failure
indication EXTi



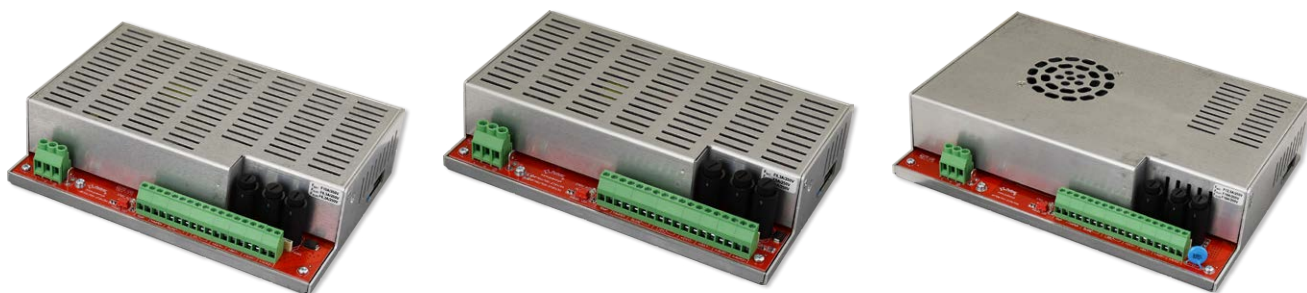
Battery connectors



Independently protected
outputs
AUX1 and AUX2

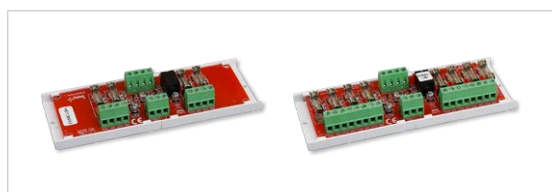
Buffer switch mode power supply modules 27,6VDC in accordance with EN54-4 standard for fire detection EN54M series

RED POWER plus



Code	Output voltage	Total current		Battery	Dimensions LxWxH [+/- 2mm]
		for continuous operation $I_{max a} + I_{lad}$	for intermittent operation $I_{max a} + I_{lad}$		
EN54M-2A7	27,6VDC	1,6A + 0,4A	2A + 0A	2x7,2Ah	200x120x48
EN54M-2A7-17		1,2A + 0,8A	2A + 0A	2x7+20Ah	
EN54M-3A7-17		2,2A + 0,8A	3A + 0A	2x7+20Ah	
EN54M-3A17-40		1,2A + 1,8A	3A + 0A	2x17+45Ah	204x141x52
EN54M-5A7-17		4,2A + 0,8A	5A + 0A	2x7+20Ah	
EN54M-5A17-40		3,2A + 1,8A	5A + 0A	2x17+45Ah	
EN54M-5A40-65		2,4A + 2,6A	5A + 0A	2x40+65Ah	237x168x55
EN54M-10A17-40		8,2A + 1,8A	10A + 0A	2x17+45Ah	
EN54M-10A40-65		7,4A + 2,6A	10A + 0A	2x40+65Ah	

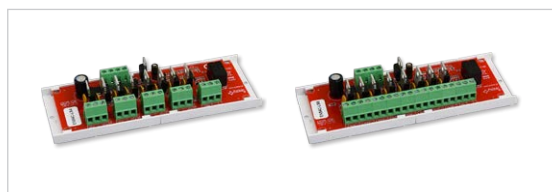
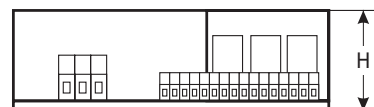
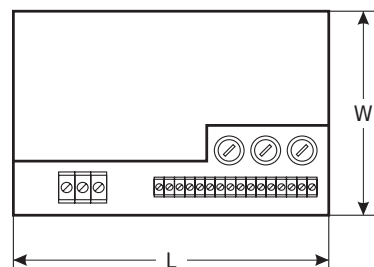
Accessories:



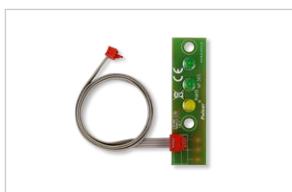
Fuse modules
EN54C-LB4, EN54C-LB8



Bracket DIN
EN54M-DIN1



Sequential modules
EN54C-LS4, EN54C-LS8



Set for optical indication
EN54M-LED

Accessories for power supply units EN54C and EN54M series

EN54C-LB4

LB4/0,5A/FTA fuse module EN54C



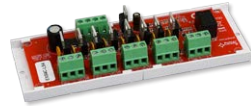
EN54C-LB8

LB8/0,5A/FTA fuse module EN54C



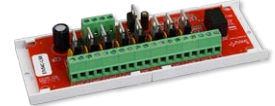
EN54C-LS4

sequential module for actuators with return spring



EN54C-LS8

sequential module for actuators without return spring



EN54M-DIN1

Bracket DIN



EN54M-LED

Set for optical indication



EN54C-BR

Set of brackets



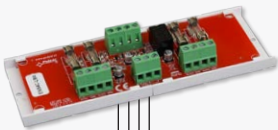
EN54C-LB4



EN54C-LS4



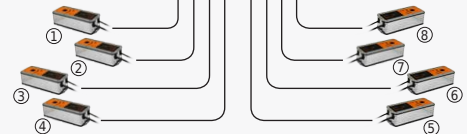
EN54C-LS8



Receiver 1
Receiver 2
Receiver 3
Receiver 4



Actuators without return spring



Actuators with return spring

Applies EN54C-...LCD

INTE-C

Interface ETHERNET



INTR-C

Interface RS485-TTL



INTRE-C

Interface RS485-ETHERNET



ETHERNET



ETHERNET



ETHERNET



„PowerSecurity“ web application



Remote desktop window of PSU

Buffer switch mode power supply units 13,8VDC for Access Control Systems - DAHUA AWZ series

- power supply: 200÷240VAC
- impulse voltage stabilizer
- deep discharge battery protection (UVP)
- technical outputs OC and relay type:
 - EPS – AC power failure
 - LoB – low battery voltage
 - PSU – power supply failure
- number of DIN rails / length / number of „S” fields: 1 / 185mm / 10
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - OVP overvoltage protection
 - surge protection
 - antisabotage protection
- dedicated to mounting controllers:
 - **Dahua ASC2104B-T, ASC2102B-T (and similar)**
- warranty: 2 years from production date



LED optical indication



Tamper switch indicating enclosure opening - 1 piece



Closing – screwed - 2 pieces



Technical outputs (relay type)

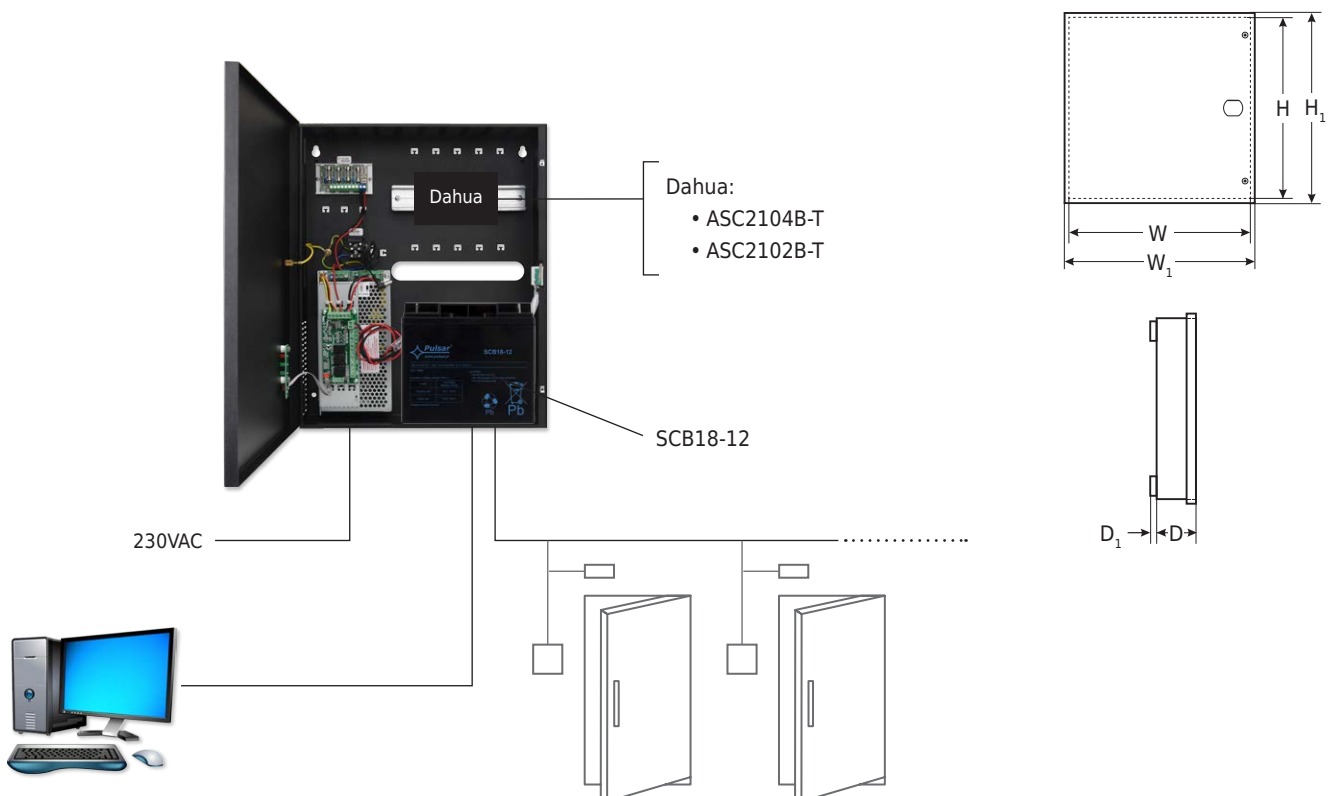


Technical outputs OC type



Spacers (plastic) - 8mm

Code	Output voltage	Total current	Battery charging current	Fitting battery	Number of DIN rails / length / number of „S” fields	Dimensions W×H×D+D ₁ [+/- 2mm]
AWZ637	13,8VDC	7A	1,0A / 2,0A	17Ah	1 / 185mm / 10	320×397×92+8



12V Batteries

Maintenance Free Batteries

HPB series



designed
lifetime 5÷8 years

SCB series



designed
lifetime 3÷5 years

STB series



designed
lifetime 2÷3 years

- dedicated for:

- power supplies for fire alarm systems: EN54C / EN54M series
- I&HAS power supply: PSBEN series
- voice alarm systems
- Security systems (CCTV, AC, IDS)
- UPS power supply
- automation

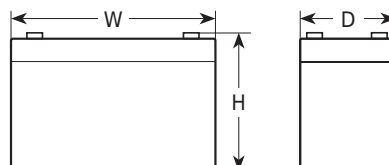
- dedicated for:

- Security systems (CCTV, AC, IDS)
- UPS power supply
- automation

- dedicated for:

- Security systems (CCTV, AC, IDS)

	Code	Output voltage	Rated capacity (C ₂₀)	Charging current		Charging voltage in 25°C		Dimensions WxHxD [+/-2mm]
				recommended	maximum	Buffer operation	Cyclic operation	
HPB series	HPB1,2-12	12VDC	1,2Ah	0,13A	0,36A	13,5VDC + 13,8VDC	14,4VDC + 14,9VDC	98×59×44
	HPB2,3-12	12VDC	2,3Ah	0,23A	0,69A	13,5VDC + 13,8VDC	14,4VDC + 14,9VDC	178×68×35
	HPB5-12	12VDC	5Ah	0,5A	1,5A	13,5VDC + 13,8VDC	14,4VDC + 14,9VDC	90×106×70
	HPB7-12	12VDC	7Ah	0,7A	2,1A	13,5VDC + 13,8VDC	14,4VDC + 14,9VDC	152×100×65
	HPB9-12	12VDC	9Ah	0,9A	2,7A	13,5VDC + 13,8VDC	14,4VDC + 14,9VDC	152×100×65
	HPB18-12	12VDC	18Ah	1,8A	5,4A	13,5VDC + 13,8VDC	14,4VDC + 14,9VDC	182×168×77
	HPB28-12	12VDC	28Ah	2,6A	7,8A	13,5VDC + 13,8VDC	14,4VDC + 14,9VDC	175×125×166
	HPB40-12	12VDC	40Ah	4A	12A	13,5VDC + 13,8VDC	14,4VDC + 14,9VDC	197×171×166
	HPB55-12	12VDC	55Ah	5,5A	16,5A	13,5VDC + 13,8VDC	14,4VDC + 14,9VDC	229×211×138
	HPB65-12	12VDC	65Ah	6,5A	19,5A	13,5VDC + 13,8VDC	14,4VDC + 14,9VDC	349×178×167
	HPB80-12	12VDC	80Ah	8A	24A	13,5VDC + 13,8VDC	14,4VDC + 14,9VDC	269×215×168
	HPB100-12	12VDC	100Ah	10A	30A	13,5VDC + 13,8VDC	14,4VDC + 14,9VDC	330×219×171
	HPB120-12	12VDC	120Ah	12A	36A	13,5VDC + 13,8VDC	14,4VDC + 14,9VDC	409×234×175
	HPB160-12	12VDC	160Ah	16A	48A	13,5VDC + 13,8VDC	14,4VDC + 14,9VDC	530×213×208
HPB200-12	12VDC	200Ah	20A	60A	13,5VDC + 13,8VDC	14,4VDC + 14,9VDC	524×222×238	
SCB series	SCB2,3-12	12VDC	2,3Ah	0,23A	0,69A	13,5VDC + 13,8VDC	14,4VDC + 14,9VDC	178×68×35
	SCB3,6-12	12VDC	3,6Ah	0,36A	1,08A	13,5VDC + 13,8VDC	14,4VDC + 14,9VDC	133×65×65
	SCB4,5-12	12VDC	4,5Ah	0,45A	1,35A	13,5VDC + 13,8VDC	14,4VDC + 14,9VDC	90×106×70
	SCB7-12	12VDC	7Ah	0,7A	2,1A	13,5VDC + 13,8VDC	14,4VDC + 14,9VDC	152×100×65
	SCB12-12	12VDC	12Ah	1,2A	3,6A	13,5VDC + 13,8VDC	14,4VDC + 14,9VDC	150×100×98
	SCB18-12	12VDC	18Ah	1,8A	5,4A	13,5VDC + 13,8VDC	14,4VDC + 14,9VDC	182×168×77
	SCB28-12	12VDC	28Ah	2,8A	8,4A	13,5VDC + 13,8VDC	14,4VDC + 14,9VDC	175×125×166
	SCB40-12	12VDC	40Ah	4A	12A	13,5VDC + 13,8VDC	14,4VDC + 14,9VDC	197×171×166
	SCB65-12	12VDC	65Ah	6,5A	19,5A	13,5VDC + 13,8VDC	14,4VDC + 14,9VDC	349×178×167
STB series	STB7-12	12VDC	7Ah	0,7A	2,1A	13,5VDC + 13,8VDC	14,4VDC + 14,9VDC	152×100×65
	STB18-12	12VDC	18Ah	1,8A	5,4A	13,5VDC + 13,8VDC	14,4VDC + 14,9VDC	182×168×77

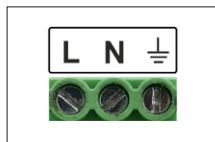


Enclosed switch mode power supply units 12VDC / 48VDC PS series

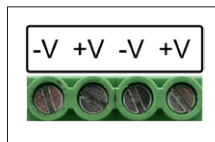
- power supply: 200÷240VAC
- impulse voltage stabilizer
- adjustable output voltage
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - OVP overvoltage protection
 - surge protection
- possibility of mounting power supplies on TH35 rail (required mounting plate)
- warranty: 2 years from production date



Sample product:
PS-12V10A



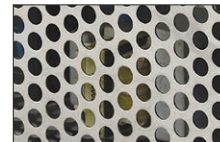
Power input terminals



Power output terminals



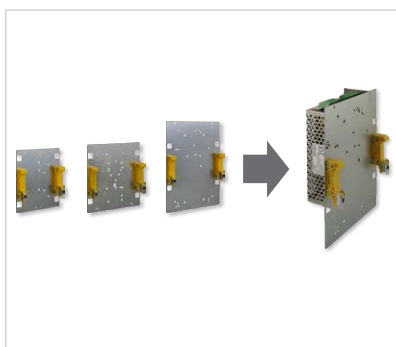
Potentiometer for output voltage adjustment



Enclosure:
perforated sheet
- convectional cooling

Code	Output voltage	Voltage adjustment	Output current	DIN adapter	Enclosure		Dimensions L×W×H [+/- 2mm]
					AWO384	AWO385	
PS-12V2A	12VDC	12-15VDC	2A	DIN1 / DIN2	✓	✓	85×60×37
PS-12V3A		12-15VDC	3A	DIN1 / DIN2	✓	✓	110×78×36
PS-12V5A		12-15VDC	5A	DIN2	✓	✓	129×98×40
PS-12V7A		12-15VDC	7A	DIN3	✓	✓	159×98×42
PS-12V10A		12-15VDC	10A	DIN3	—	✓	199×110×50
PS-12V15A		12-15VDC	15A	DIN3	—	✓	214×114×50
PS-48V1A	48VDC	48÷53VDC	1,2A	DIN2	—	✓	129×98×40
PS-48V3A		48÷53VDC	3A	DIN3	—	✓	199×110×50

Accessories:



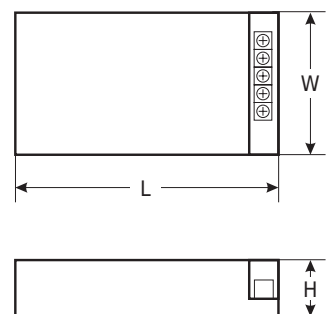
DIN1 / DIN2 / DIN3

Mounting plate (allows mounting power supplies on TH35 rail)



AWO384 / AWO385

Enclosures for enclosed power supplies



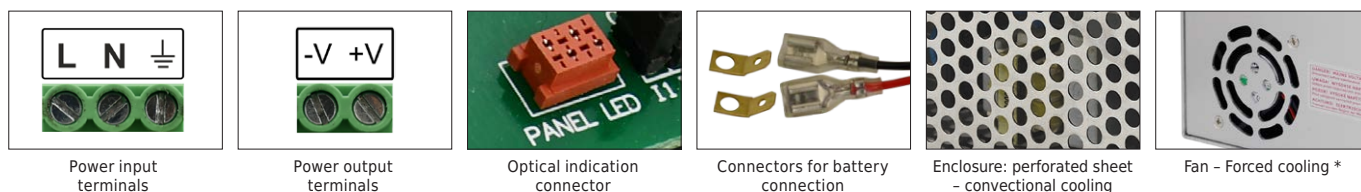
Enclosed switch mode buffer power supply units 13,8VDC / 27,6VDC / 54VDC PSB series

- power supply: 200÷240VAC
- impulse voltage stabilizer
- deep discharge battery protection (UVP)
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - OVP overvoltage protection
 - surge protection
 - OHP overheat protection *
- possibility of mounting power supplies on TH35 rail (required mounting plate)
- warranty: 2 years from production date

* depending on model

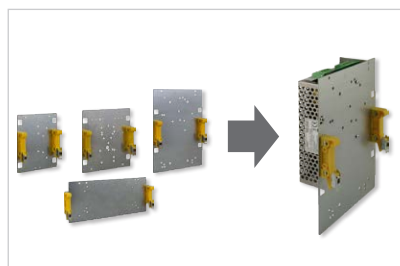


Sample product:
PSB-12V7A



Code	Output voltage	Output current	Battery charging current	DIN adapter	Dimensions L×W×H [+/- 2mm]
PSB-12V2A	13,8VDC	2,5A	0,5A	DIN1 / DIN2	110×78×36
PSB-12V3A		3,5A	0,5A	DIN1 / DIN2	
PSB-12V5A		5,5A	0,5A / 1A	DIN2	129×98×40
PSB-12V7A		7,0A	1A / 2A	DIN3	159×98×42
PSB-12V10A		10A	1A / 4A	DIN3	199×110×50
PSB-12V15A		15A	2A / 4A	DIN3 / DIN4	214×114×50
PSB-12V20A		20A	2A / 4A / 8A	DIN4	237×168×54
PSB-24V2A	27,6VDC	2,2A	0,2A / 0,5A	DIN2	129×98×40
PSB-24V3A		3,5A	0,5A / 1A	DIN3	159×98×42
PSB-24V5A		5,0A	0,5A / 2A	DIN3	199×110×50
PSB-24V7A		7,0A	1A / 2A	DIN3 / DIN4	214×114×50
PSB-24V10A		10A	1A / 2A / 4A	DIN4	237×168×54
PSB-48V3A	54VDC	3A	0,5A / 1A	DIN3	199×110×50
PSB-48V5A		5A	0,5A / 1A / 2A	DIN4	237×168×54

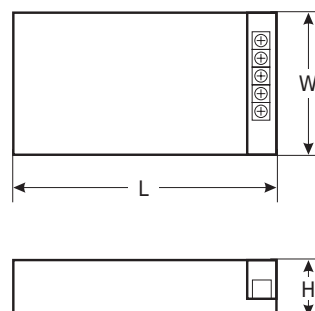
Accessories:



DIN1 / DIN2 / DIN3 / DIN4
Mounting plate (allows mounting power supplies on TH35 rail)



PKAZ168
Set for optical indication
(three LEDs indicating status of power supply)



Enclosed buffer switch mode power supply units 13,8VDC / 27,6VDC

Compliant with EN50131-6 standard for alarm systems - GRADE 1, 2
 Compliant with EN60839-11 standard for access control - GRADE 1, 2
PSG2 series

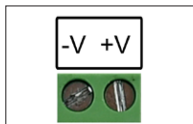
- power supply: 200÷240VAC
- impulse voltage stabilizer
- compliant with norm EN50131-6:2017 in grade 1, 2, EN60839-11:2013 in grade 1, 2 and II environment class
- automatic battery test performed every 5 minutes
- technical outputs relay type:
 - EPS - 230V power failure AC
 - APS - battery failure
- function START allows running PSU from battery circuit
- deep discharge battery protection (UVP)
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - OVP overvoltage protection
 - surge protection
- possibility of mounting power supplies on TH35 rail (required mounting plate)
- warranty: 2 years from production date



Sample product:
PSG2-12V7A



Power input terminals



Power output terminals



Technical outputs (relay type)



Connectors for battery connection



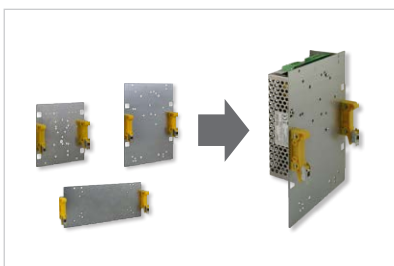
START button



Optical indication connector

Code	Output voltage	Output current	Battery charging current	DIN adapter	Dimensions L×W×H [+/- 2mm]
PSG2-12V1A	13,8VDC	1,2A	0,2A	DIN2	129×98×40
PSG2-12V2A		2,5A	0,5A / 1A	DIN2	
PSG2-12V3A		3,5A	0,5A / 1A	DIN2	
PSG2-12V5A		5A	1A / 2A	DIN3	159×98×42
PSG2-12V7A		7A	1A / 2A	DIN3	
PSG2-12V10A		10A	1A / 4A	DIN4	
PSG2-12V20A		20A	2A / 4A / 8A	DIN4	237×168×54
PSG2-24V2A	27,6VDC	2,5A	0,5A / 1A	DIN3	159×98×42
PSG2-24V3A		3,5A	0,5A / 1A	DIN3	
PSG2-24V5A		5A	1A / 2A	DIN4	204×141×52
PSG2-24V10A		10A	1A / 2A / 4A	DIN4	

Accessories:



DIN2 / DIN3 / DIN4

Mounting plate (allows mounting power supplies on TH35 rail)



PKAZ168

Set for optical indication (three LEDs indicating status of power supply)

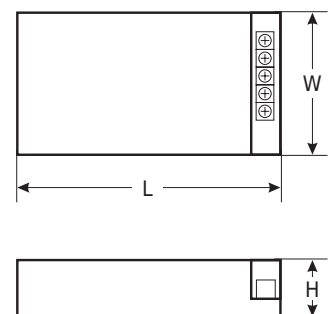


Table of switches

Code	Number of ports: PoE	UPLINK		COMBO	Long Range mode 100 Mb/s - up to 100m 10 Mb/s - up to 250m	Power supply	Mounting options			Dimensions W×H×D [+/- 2mm]
		ports RJ45	sockets SFP				Brackets for mounting to surface	Mounting brackets for RACK 19"	DIN rail brackets	

64

S64	4 - 100 Mb/s	2 - 100 Mb/s	—	—	✓ (ports 1+4)	52VDC / 1,15A desktop	✓	/	—	/	—	118×28×85
SG64	4 - 1 Gb/s	2 - 1 Gb/s	—	—	—	52VDC / 1,15A desktop	✓	/	—	/	—	118×28×85
SFG64	4 - 1 Gb/s	—	2 - 1 Gb/s	—	—	52VDC / 1,15A desktop	✓	/	—	/	—	118×28×95
SFG64F1	4 - 1 Gb/s	1 - 1 Gb/s	1 - 1 Gb/s	—	—	52VDC / 1,15A desktop	✓	/	—	/	—	118×28×95

108

S108-90W	8 - 100 Mb/s	2 - 100 Mb/s	—	—	✓ (ports 1+8)	52VDC / 1,75A desktop	✓	/	—	/	—	190×28×105
S108	8 - 100 Mb/s	2 - 100 Mb/s	—	—	✓ (ports 1+8)	52VDC / 2,3A desktop	✓	/	—	/	—	190×28×105
SG108-90W	8 - 1 Gb/s	2 - 1 Gb/s	—	—	—	52VDC / 1,75A desktop	✓	/	—	/	—	190×27×105
SG108	8 - 1 Gb/s	2 - 1 Gb/s	—	—	—	52VDC / 2,3A desktop	✓	/	—	/	—	190×27×105
SF108-90W	8 - 100 Mb/s	2 - 1 Gb/s	2 - 1 Gb/s	—	—	52VDC / 1,75A desktop	✓	/	✓	/	—	220×44×150
SF108	8 - 100 Mb/s	2 - 1 Gb/s	2 - 1 Gb/s	—	—	52VDC / 2,3A desktop	✓	/	✓	/	—	220×44×150
SFG10F8	—	2 - 1 Gb/s	8 - 1 Gb/s	—	—	12VDC / 2A desktop	✓	/	—	/	—	221×29×115

116

S116	16 - 100 Mb/s	2 - 1 Gb/s	—	—	✓ (ports 9+16)	230VAC	✓	/	✓	/	—	270×44×181
SF116	16 - 100 Mb/s	2 - 1 Gb/s	2 - 1 Gb/s	✓	—	230VAC	—	/	✓	/	—	442×44×224

124

S124	24 - 100 Mb/s	2 - 1 Gb/s	—	—	✓ (ports 17+24)	230VAC	✓	/	✓	/	—	330×44×204
SF124	24 - 100 Mb/s	2 - 1 Gb/s	2 - 1 Gb/s	✓	—	230VAC	—	/	✓	/	—	442×44×224

ISFG, ISF series without power supply unit, with SFP socket, industrial

ISFG42	2 - 1 Gb/s	—	2 - 1 Gb/s	—	—	48÷57VDC / 50W external power supply	—	/	—	/	✓	30×128×112
ISFG64	4 - 1 Gb/s	—	2 - 1 Gb/s	—	—	48÷57VDC / 75W external power supply	—	/	—	/	✓	30×128×112
ISF108	8 - 100 Mb/s	2 - 1 Gb/s	2 - 1 Gb/s	—	—	48÷57VDC / 120W external power supply	—	/	—	/	✓	54×176×153

Legend:

4 - 100 Mb/s — mark of number of ports 100 Mb/s

8 - 1 Gb/s — mark of number of ports 1 Gb/s

PoE switches for IP cameras with power supply

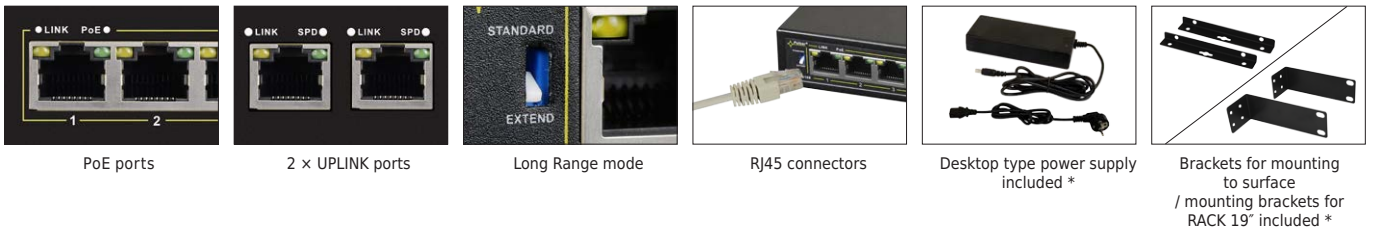
S series

- supports devices compliant with IEEE 802.3af/at standard
- 10/100 Mb/s and 1 Gb/s ports *
- PoE ports - data transfer and power supply
- Long Range mode: STANDARD - 100m/100 Mb/s or EXTEND - 250m/10 Mb/s
- 30W for each PoE port - 52VDC (PoE+)
- UPLINK ports: 2 ports - for recorder / switch / computer installation
- desktop type power supply included *
- additional mounting elements:
 - brackets for mounting to surface *
 - mounting brackets for RACK 19" *
- warranty: 2 years from production date

* depending on model

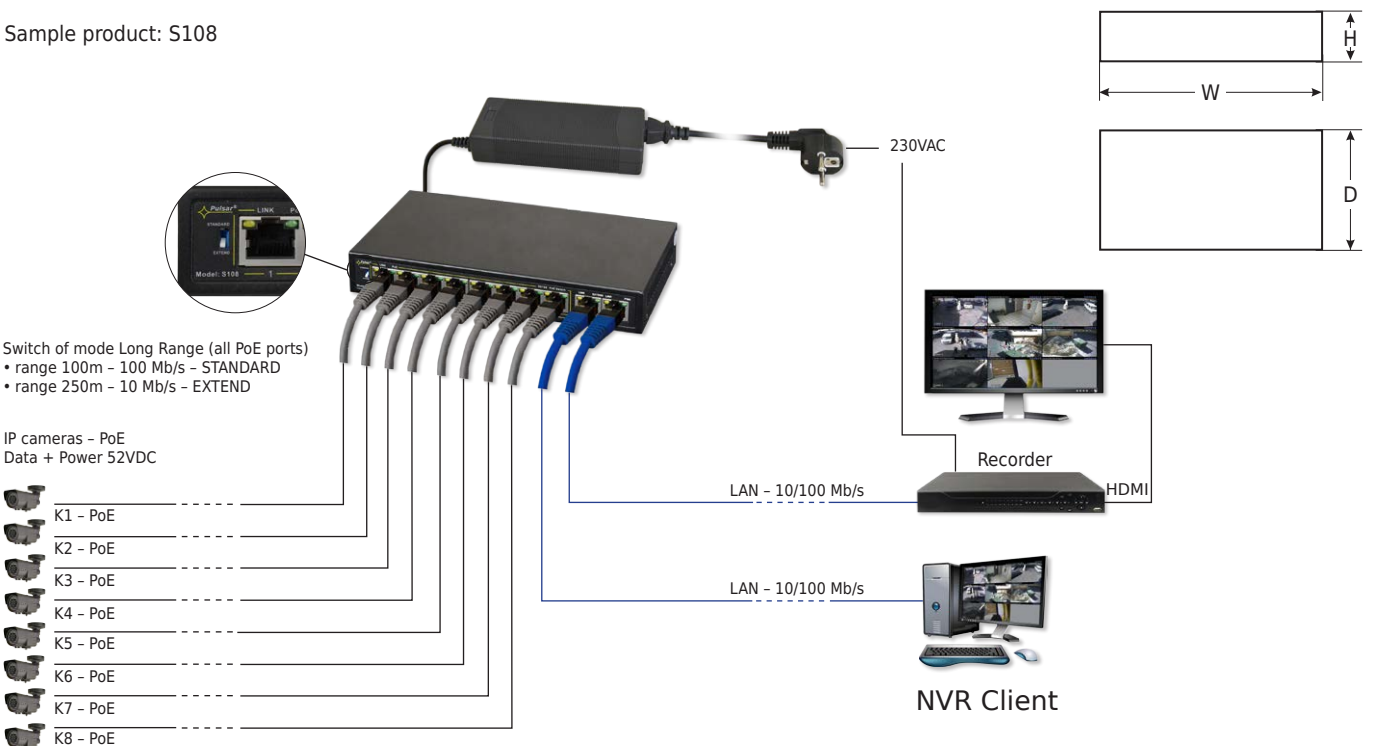


Sample product:
S108



Code	Number of ports: PoE	Long Range mode 100 Mb/s - up to 100m 10 Mb/s - up to 250m	Number of ports: UPLINK	Power supply	Brackets for mounting to surface / Mounting brackets for RACK 19"	Dimensions WxHxD [+/- 2mm]
S64	4 - 100 Mb/s	✓ (ports 1÷4)	2 - 100 Mb/s	52VDC / 1,15A desktop	✓ / -	118x28x85
S108-90W	8 - 100 Mb/s	✓ (ports 1÷8)		52VDC / 1,75A desktop	✓ / -	190x28x105
S108		✓ (ports 1÷8)		52VDC / 2,3A desktop	✓ / -	
S116	16 - 100 Mb/s	✓ (ports 9÷16)	2 - 1 Gb/s	230VAC	- / ✓	270x44x181
S124	24 - 100 Mb/s	✓ (ports 17÷24)			- / ✓	330x44x204

Sample product: S108



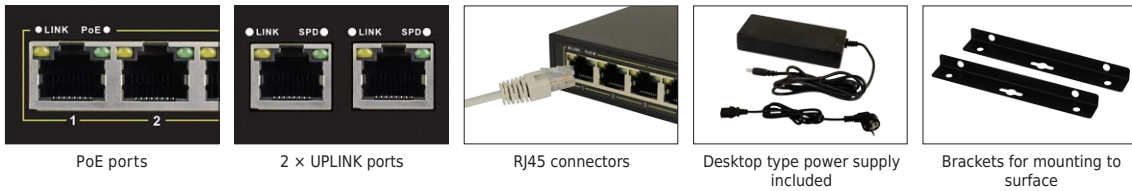
PoE switches for IP cameras with power supply

SG series

- supports devices compliant with IEEE 802.3af/at standard
- 1 Gb/s ports
- PoE ports - data transfer and power supply
- 30W for each PoE port - 52VDC (PoE+)
- UPLINK ports: 2 ports - for recorder / switch / computer installation
- desktop type power supply included
- additional mounting elements:
 - brackets for mounting to surface
- warranty: 2 years from production date

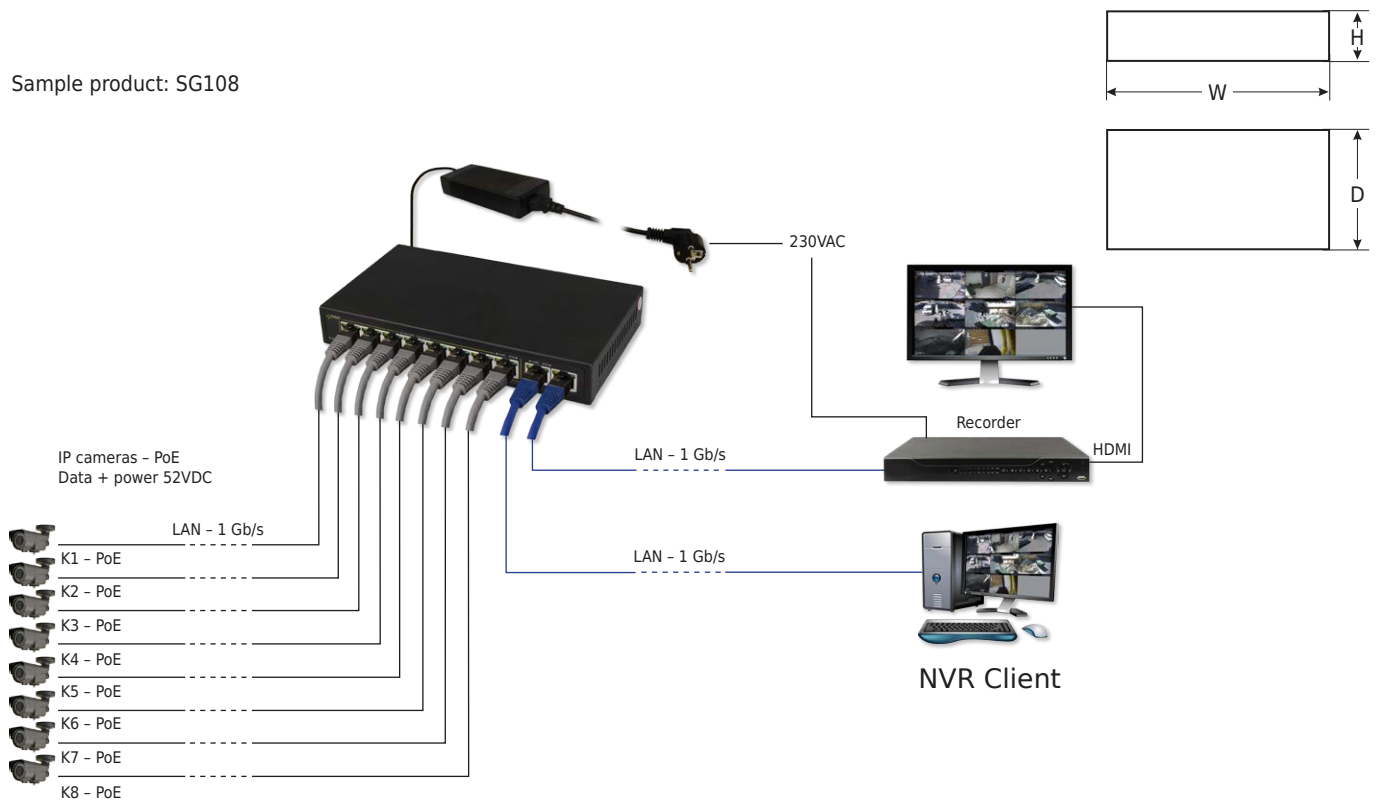


Sample product:
SG108



Code	Number of ports: PoE	Number of ports: UPLINK	Power supply	Brackets for mounting to surface	Dimensions W×H×D [+/- 2mm]
SG64	4 - 1 Gb/s	2 - 1 Gb/s	52VDC / 1,15A desktop	✓	118×28×85
SG108-90W	8 - 1 Gb/s		52VDC / 1,75A desktop	✓	190×27×105
SG108	8 - 1 Gb/s		52VDC / 2,3A desktop	✓	190×27×105

Sample product: SG108



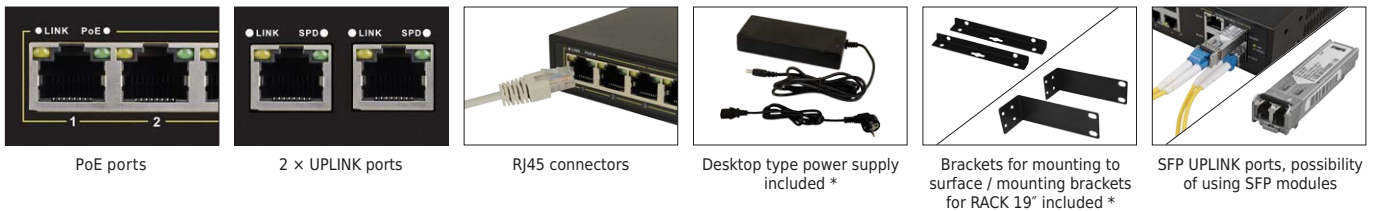
PoE switches for IP cameras with power supply, with SFP sockets SF series

- supports devices compliant with IEEE 802.3af/at standard
- 10/100 Mb/s and 1 Gb/s ports
- PoE ports – data transfer and power supply
- 30W for each PoE port – 52VDC (PoE+)
- UPLINK ports: 2 ports – for recorder / switch / computer installation
- desktop type power supply included *
- additional mounting elements:
 - brackets for mounting to surface *
 - mounting brackets for RACK 19" *
- warranty: 2 years from production date



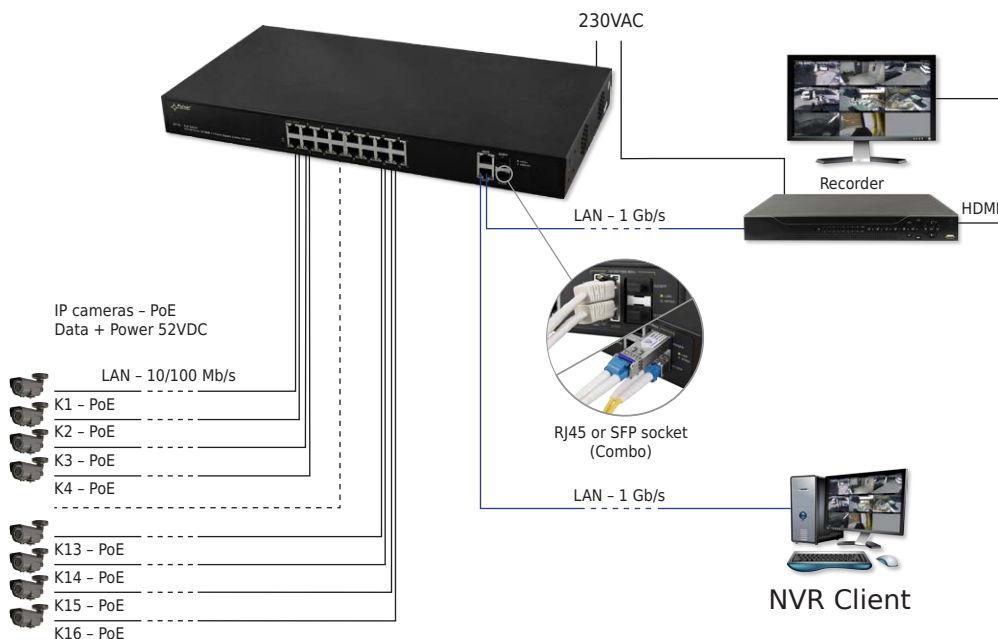
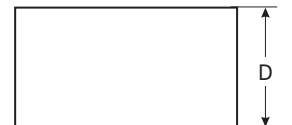
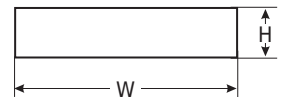
Sample product:
SF116

* depending on model



Code	Number of ports: PoE	UPLINK		Combo	Power supply	Brackets for mounting to surface /	Mounting brackets for RACK 19"	Dimensions W×H×D [+/- 2mm]
		ports RJ45	sockets SFP					
SF108-90W	8 - 100 Mb/s	2 - 1 Gb/s	2 - 1 Gb/s	—	52VDC / 1,75A desktop	✓ / ✓	✓	220×44×150
SF108				—	52VDC / 2,3A desktop	✓ / ✓	✓	
SF116	16 - 100 Mb/s			✓	230VAC	— / ✓	442×44×224	
SF124	24 - 100 Mb/s			✓	230VAC	— / ✓		

Sample product: SF116



PoE switches for IP cameras with power supply, with SFP sockets

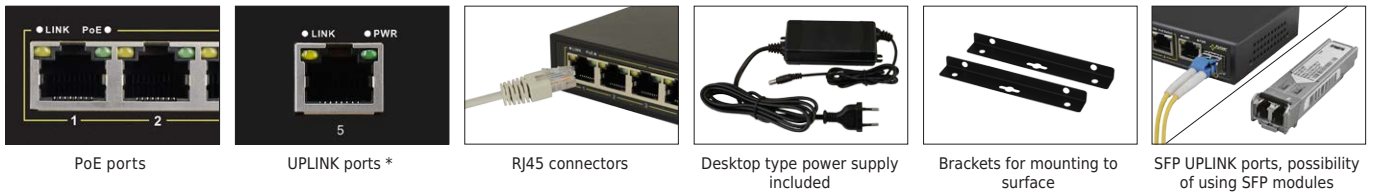
SFG series

- supports devices compliant with IEEE 802.3af/at standard
- 1 Gb/s ports
- PoE ports - data transfer and power supply
- 30W for each PoE port - 52VDC (PoE+)
- RJ45 UPLINK ports: n/a / 1 port - for recorder / switch / computer installation *
- SFP UPLINK sockets: 1/2 ports - for switch installation *
- desktop type power supply included
- additional mounting elements:
 - brackets for mounting to surface
- warranty: 2 years from production date



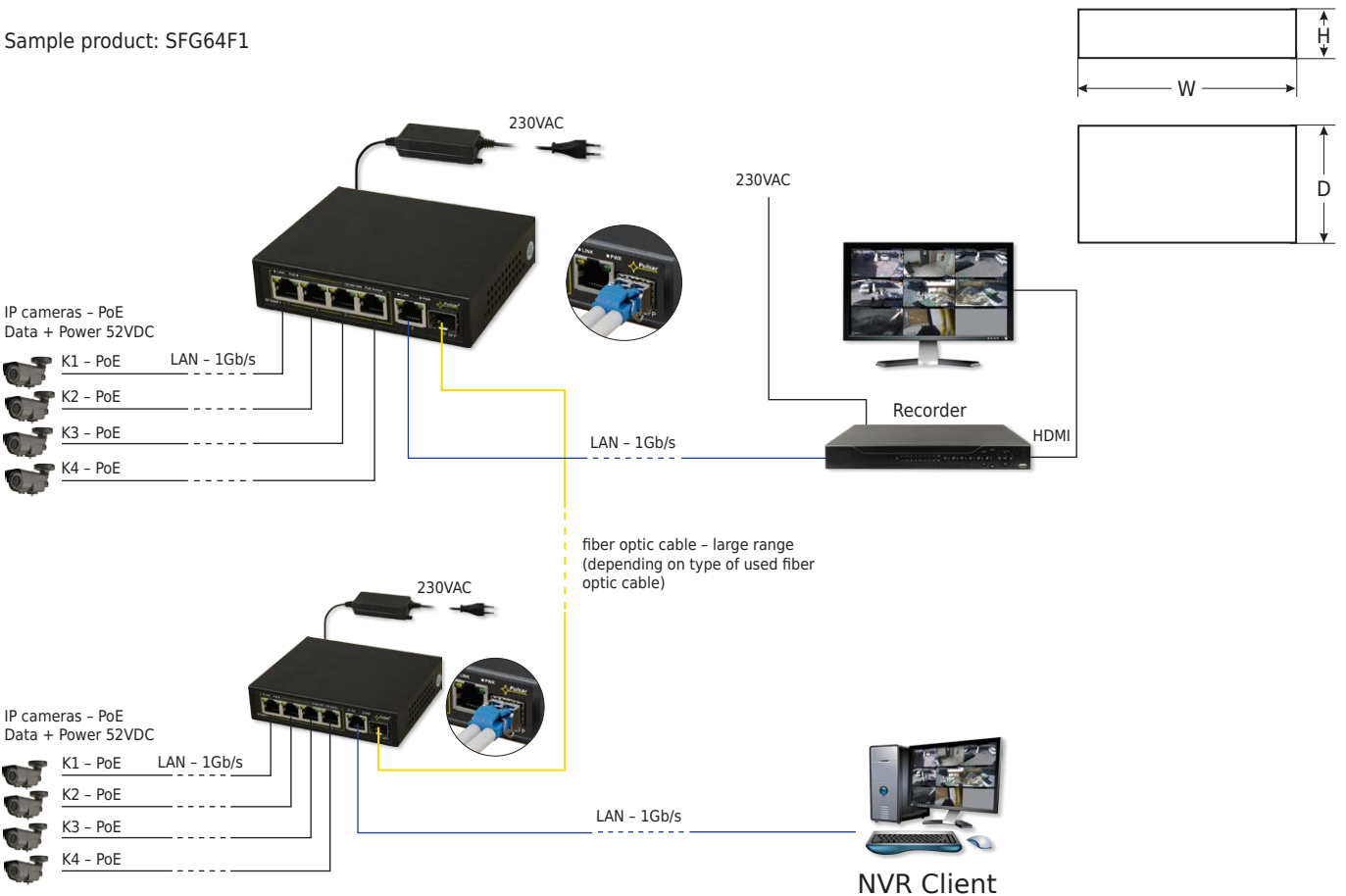
Sample product:
SFG64F1

* depending on model



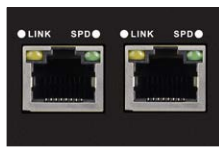
Code	Number of ports: PoE	UPLINK		Power supply	Brackets for mounting to surface	Dimensions W×H×D [± 2mm]
		ports RJ45	sockets SFP			
SFG64	4 - 1 Gb/s	—	2 - 1 Gb/s	52VDC / 1,15A desktop	✓	118×28×95
SFG64F1		1 - 1 Gb/s	1 - 1 Gb/s			

Sample product: SFG64F1



Fiber optical switch with power supply, with SFP sockets SFG10F8 series

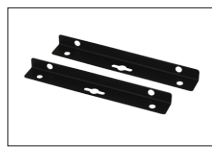
- 1 Gb/s ports
- RJ45 UPLINK ports: 2 ports - for recorder / switch / computer installation
- SFP sockets: 8 ports - for switch installation
- desktop type power supply included
- additional mounting elements:
 - brackets for mounting to surface
- warranty: 2 years from production date



2 x UPLINK ports



Desktop type power supply included

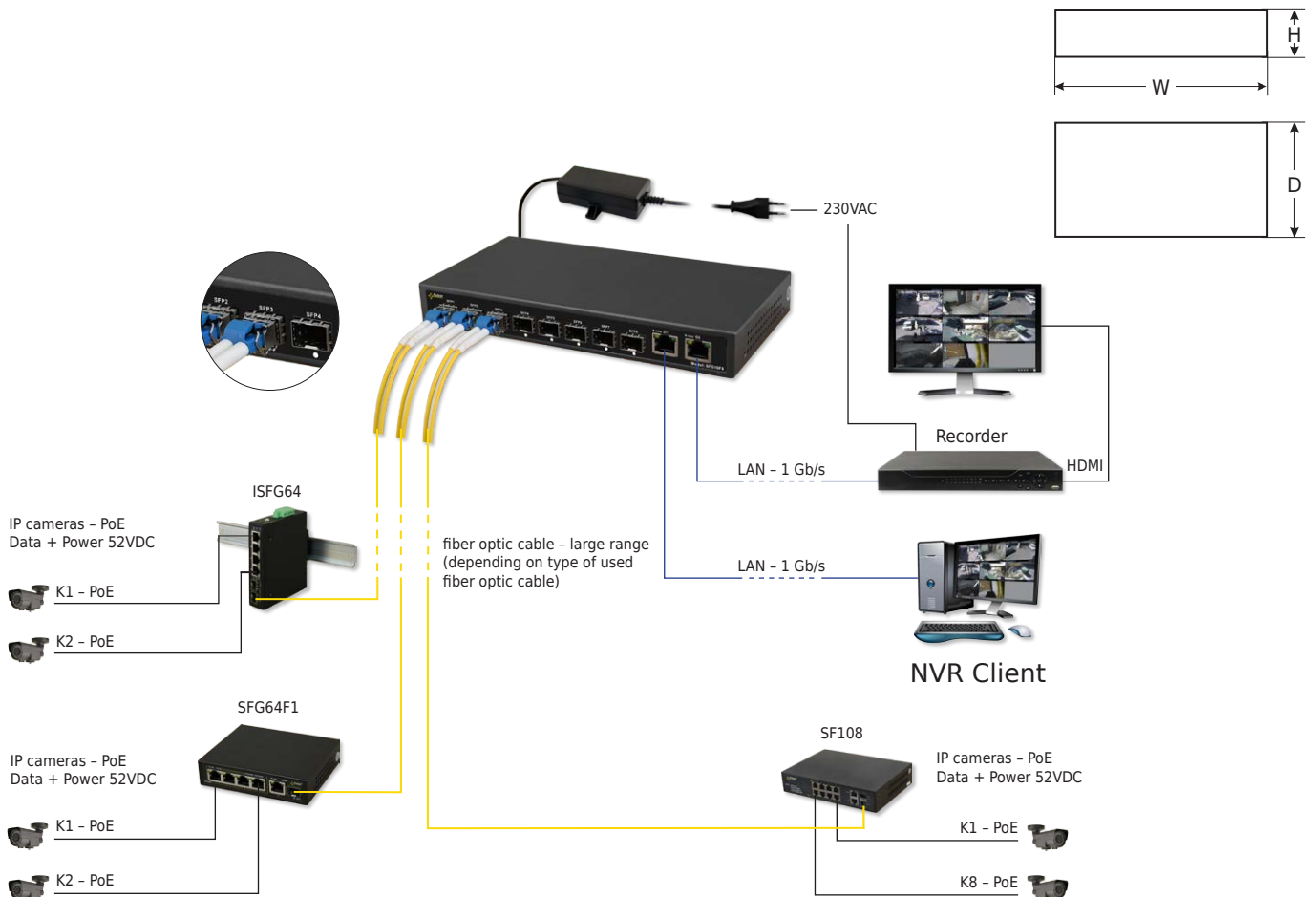


Brackets for mounting to surface



SFP UPLINK ports, possibility of using SFP modules

Code	Number of ports: PoE	UPLINK		Power supply	Brackets for mounting to surface	Dimensions W×H×D [+/- 2mm]
		ports RJ45	sockets SFP			
SFG10F8	—	2 - 1 Gb/s	8 - 1 Gb/s	12VDC / 2A desktop	✓	221×29×115



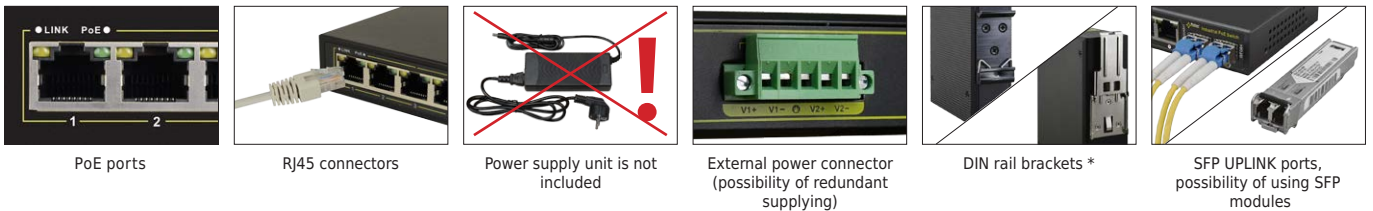
PoE switches for IP cameras, industrial without power supply unit, with SFP sockets ISFG, ISF series

- supports devices compliant with IEEE 802.3af/at standard
- 10/100 Mb/s and 1 Gb/s ports *
- PoE ports - data transfer and power supply
- 30W for each PoE port - 52VDC (PoE+)
- RJ45 UPLINK ports: n/a / 2 ports - for recorder / switch / computer installation *
- SFP UPLINK sockets: 2 ports - for switch installation
- external power supply 52÷57VDC
- possibility of redundant supplying
- power supply unit is not included
- additional mounting elements:
 - DIN rail brackets
- warranty: 2 years from production date



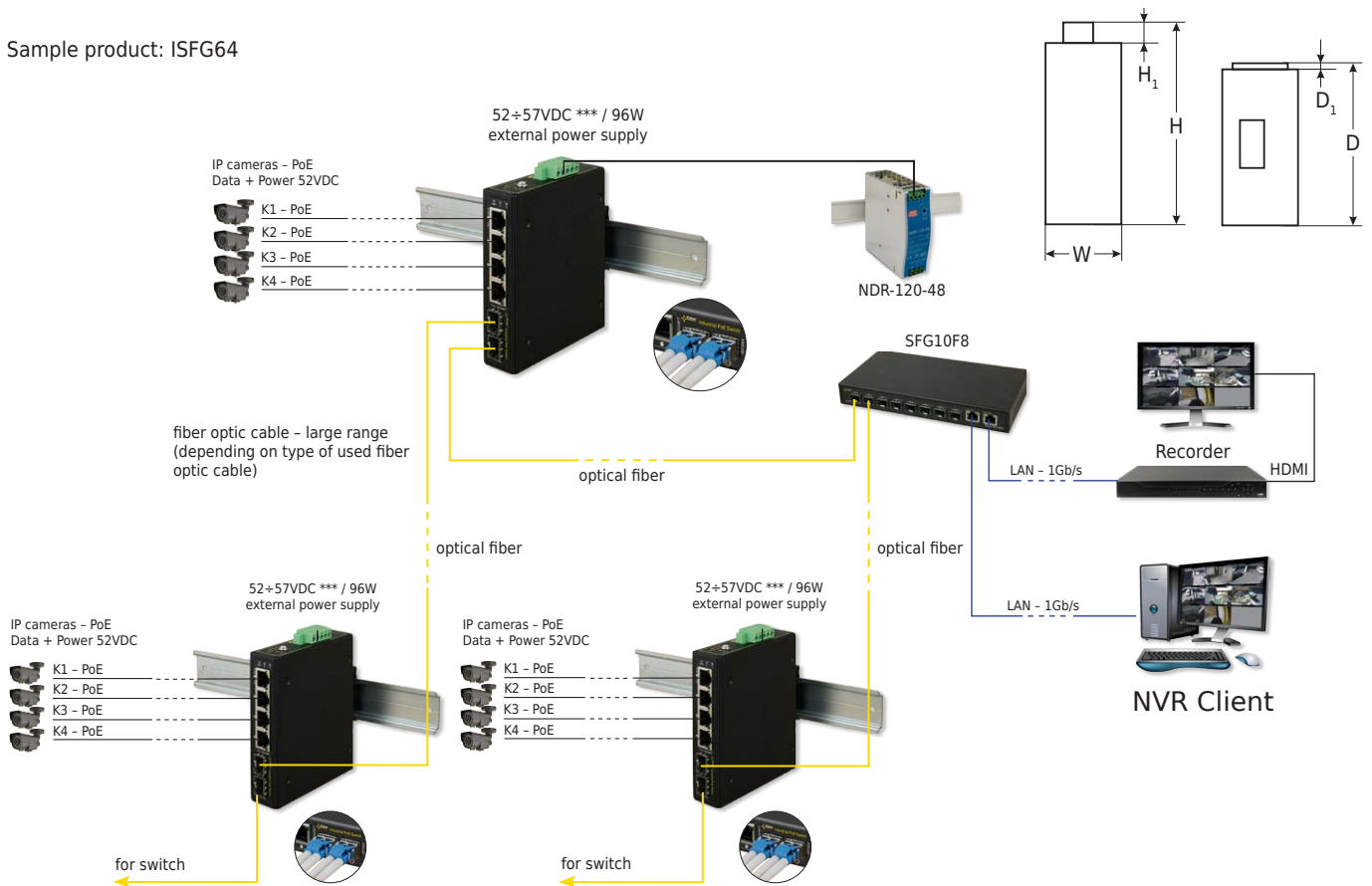
Sample product: ISFG64

* depending on model



Code	Number of ports: PoE	UPLINK		Power supply	DIN rail brackets	Dimensions W×H×D [± 2mm] H ₁ ×D ₁ [± 2mm]
		ports RJ45	sockets SFP			
ISFG42	2 - 1 Gb/s	—	2 - 1 Gb/s	48÷57VDC / 60W external power supply	✓	30×128×112 10×9
ISFG64	4 - 1 Gb/s	—		48÷57VDC / 96W external power supply	✓	54×176×153 10×8
ISF108	8 - 100 Mb/s	2 - 1 Gb/s	—	48÷57VDC / 120W external power supply	✓	

Sample product: ISFG64



*** to maintain PoE+ standard

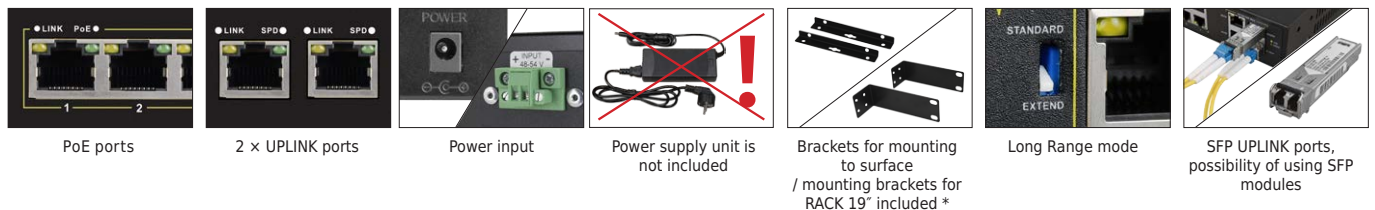
PoE switches for IP cameras - without power supply for installation in universal power supply systems SWS and SWB series S...WP, SG...WP, SF...WP, SFG...WP series

- supports devices compliant with IEEE 802.3af/at standard
- 10/100 Mb/s and 1 Gb/s ports *
- PoE ports - data transfer and power supply
- Long Range mode: STANDARD - 100m/100 Mb/s or EXTEND - 250m/10 Mb/s *
- 30W for each PoE port - 52VDC (PoE+)
- UPLINK ports: 2 ports - for recorder / switch / computer installation *
- SFP UPLINK sockets: 2 ports - for recorder / switch / computer installation *
- external power supply 48-54VDC / 48-57VDC *
- power supply unit is not included
- additional mounting elements:
 - brackets for mounting to surface *
 - mounting brackets for RACK 19" *
- warranty: 2 years from production date



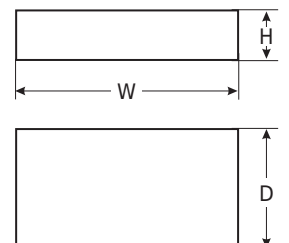
Sample product:
SF116WP

* depending on model



Code	Number of ports: PoE	Long Range mode 100 Mb/s - up to 100m 10 Mb/s - up to 250m	UPLINK		Power supply	Brackets for mounting to surface / mounting brackets for RACK 19"	Mounting brackets for RACK 19"	Dimensions W×H×D [± 2mm]
			RJ45 ports	SFP sockets				
S64WP	4 - 100 Mb/s	✓ (1+4 ports)	2 - 100 Mb/s	—	48-57VDC	✓ / —	—	118×28×85
SG64WP	4 - 1 Gb/s	—	2 - 1 Gb/s	—	48-57VDC	✓ / —	—	118×28×85
SFG64WP	4 - 1 Gb/s	—	—	2 - 1 Gb/s	48-57VDC	✓ / —	—	118×28×95
SFG64F1WP	4 - 1 Gb/s	—	1 - 1 Gb/s	1 - 1 Gb/s	48-57VDC	✓ / —	—	118×28×95
S108WP	8 - 100 Mb/s	✓ (1+8 ports)	2 - 100 Mb/s	—	48-57VDC	✓ / —	—	190×28×105
SG108WP	8 - 1 Gb/s	—	2 - 1 Gb/s	—	48-57VDC	✓ / —	—	190×28×105
SF108WP	8 - 100 Mb/s	—	2 - 1 Gb/s	2 - 1 Gb/s	48-57VDC	✓ / ✓	✓	220×44×150
S116WP	16 - 100 Mb/s	✓ (9+16 ports)	2 - 1 Gb/s	—	48-54VDC	— / ✓	✓	270×44×181
SF116WP	16 - 100 Mb/s	—	2 - 1 Gb/s	2 - 1 Gb/s	48-54VDC	— / ✓	✓	442×44×224
S124WP	24 - 100 Mb/s	✓ (17+24 ports)	2 - 1 Gb/s	—	48-54VDC	— / ✓	✓	330×44×204
SF124WP	24 - 100 Mb/s	—	2 - 1 Gb/s	2 - 1 Gb/s	48-54VDC	— / ✓	✓	442×44×224

Example of application:



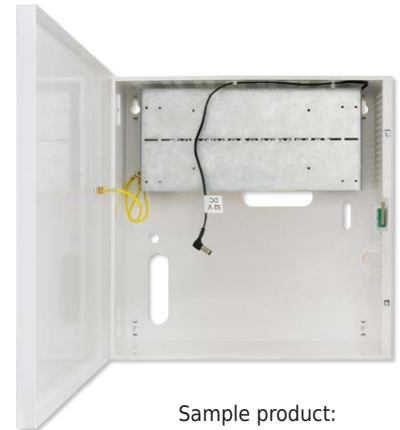
Power supply systems for PoE switches

SWS series

Enclosure with power supply unit and additional adapter for mounting switch and recorder *

- power supply: 200-240VAC
- output voltage – PoE: 52VDC – JACK plug 2,1/5,5
- available models: 60W / 150W *
- dedicated to 4/8 port PoE switches
- metal enclosure – color white RAL9003
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - OVP overvoltage protection
 - OHP overheat protection *
 - surge protection
 - antisabotage protection
- warranty: 2 years from production date

* depending on model



Sample product:
SWS-150



Tamper switch indicating enclosure opening - 1 piece



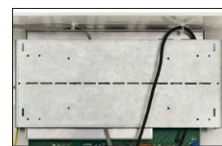
Closing - screwed - 2 pieces



Spacers (plastic) - 8mm



Switch power supply JACK 2,1/5,5 plug



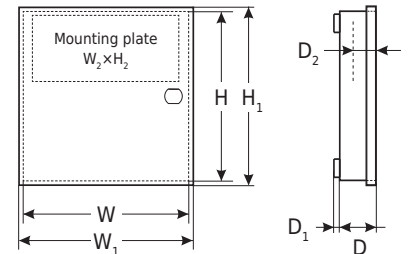
Mounting plate for PoE switches

Code	Output voltage - PoE / power	Adjustable output voltage - PoE	Enclosure dimensions $W \times H \times D + D_1$ [+/- 2mm]	Mounting plate dimensions $W_2 \times H_2 \times D_2$ [+/- 2mm]
SWS-60	52VDC / 60W	48+53VDC	230x300x82+8	200x110x50
SWS-150	52VDC / 150W	48+53VDC	300x300x105+8	230x110x45

Accessories:



DC/DC50HV
converter
(e.g. recorder power supply 12VDC)



Sample product: SWS-150

Switches:
S64WP / S108WP
SG64WP / SG108WP
SFG64WP / SFG64F1WP
SF108



IP receivers
Data + power supply 52VDC



Controller IP
(IP telephone, IP access control, ...)



IP camera



IP telephone



IP intercom



IP video intercom



IP access control



Access Point IP

Power supply systems for PoE switches with battery backup

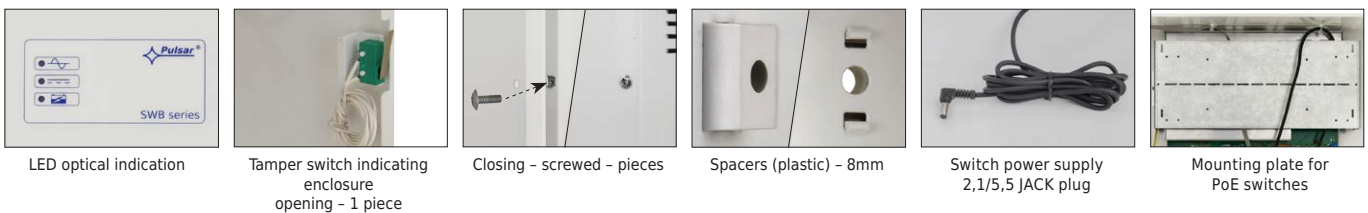
SWB series

Enclosure with buffer power supply unit and additional adapter for mounting switch and recorder *

- power supply: 200-240VAC
- output voltage – PoE: 52VDC / 54VDC * – JACK plug 2,1/5,5
- available models: 60W / 120W / 300W * – buffer
- possibility of installing additional mounting plate *
- optical indication
- fitting battery: 1×7Ah / 2×17Ah / 4×17Ah *
- battery charging current: 0,5A / 1A / 2A jumper selectable *
- deep discharge battery protection – UVP
- battery charging and maintenance control
- metal enclosure – color white RAL9003
- protections:
 - SCP short circuit protection,
 - OVP overvoltage protection,
 - surge protection,
 - OLP overload protection,
 - OHP overheat protection, *
 - antisabotage protection,
- warranty: 2 years from production date

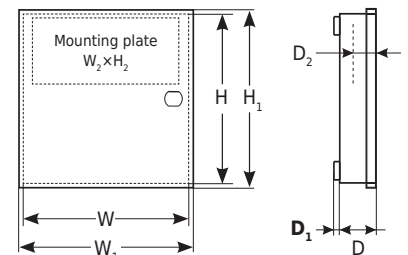
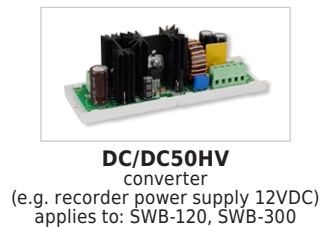


* depending on model



Code	Output voltage - PoE / power	Battery charging current	Fitting batteries	Enclosure dimensions W×H×D+D ₁ [+/- 2mm]	Mounting plate dimensions W ₂ ×H ₂ ×D ₂ [+/- 2mm]	Additional mounting plate
SWB-60	52VDC / 60W – buffer	1A / 2A	1×7Ah	300×300×105+8	230×110×45	—
SWB-120	52VDC / 120W – buffer	0,5A / 2A	2×17Ah	330×380×173+8	245×150×90	BM2
SWB-300	54VDC / 300W – buffer	0,5A / 1A / 2A	4×17Ah	460×390×173+8	245×150×90	

Accessories:



Sample product: SWB-300

Switches:
S64WP / S108WP
SG64WP / SG108WP
SFG64WP / SFG64F1WP
SF108



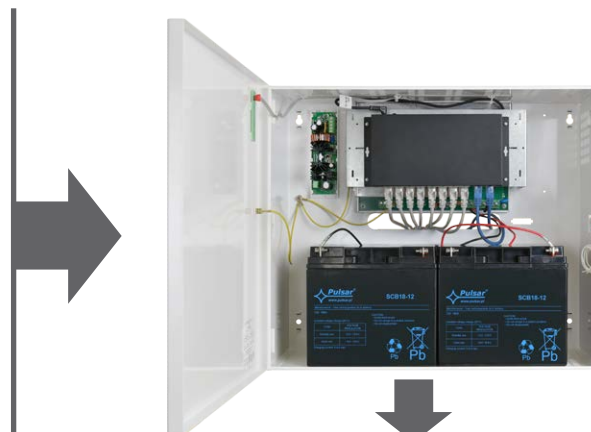
Batteries 4×7=17Ah



BM2 – mounting plate



DC/DC50HV converter – 12V/5A



IP receivers
Data + power supply 52VDC

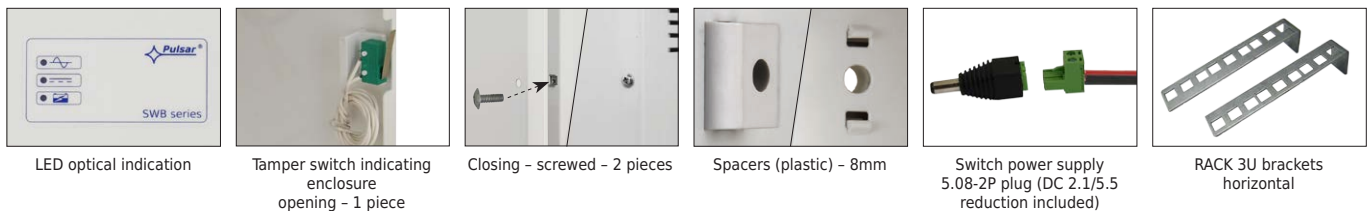


Power supply systems for PoE switches with battery backup

SWB...RACK series

Enclosure with buffer power supply unit and mounting bracket for RACK 19" standard devices

- power supply: 200-240VAC
- output voltage - PoE: 54VDC - EDG 5.08MM-2P plug (JACK plug 2,1/5,5 - included)
- available models: 300W - buffer
- RACK - 3U brackets, with adjustable mounting height on 3 levels
- enclosure construction is compliant with requirements of General Data Protection Regulation GDPR (possibility of installing two locks with different codes)
- optical indication
- fitting battery: 4x17Ah
- battery charging current: 0,5A / 1A / 2A jumper selectable
- deep discharge battery protection - UVP
- battery charging and maintenance control
- metal enclosure - color white RAL9003
- protections:
 - SCP short circuit protection,
 - OVP overvoltage protection,
 - surge protection,
 - OLP overload protection,
 - OHP overheat protection,
 - antisabotage protection,
- warranty: 2 years from production date



LED optical indication

Tamper switch indicating enclosure opening - 1 piece

Closing - screwed - 2 pieces

Spacers (plastic) - 8mm

Switch power supply 5.08-2P plug (DC 2.1/5.5 reduction included)

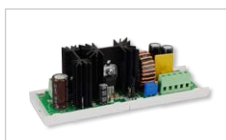
RACK 3U brackets horizontal

Code	Output voltage - PoE / power	Battery charging current	Fitting batteries	RACK 19" profiles / recorder space	GDPR (possibility of installing two locks with different codes)	Enclosure dimensions $W \times H \times D + D_1$ [+/- 2mm]	Installation space $W_2 \times H_2 \times D_2$ [+/- 2mm]
SWB-300RACK	54VDC / 300W - buffer	0,5A / 1A / 2A	4x17Ah	3U - horizontal / ✓	✓	535x650x165+14	530x430x155

Accessories:



RAPDS
Universal RACK adapter for desktop switches



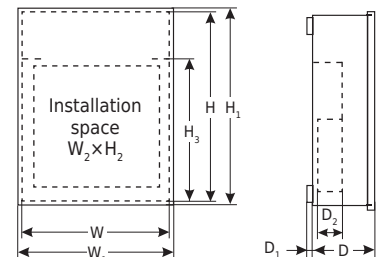
DC/DC50HV
Converter (e.g. recorder power supply 12VDC)



ZPR
Set of two straps for mounting recorder



2x MR008
Lock, type 802 - various code



Switches:
S116WP / S124WP
SF108WP, SF116WP, SF124WP

Batteries 4x7÷17Ah

DC/DC50HV converter - 12V/5A

Patch Panel

Recorder RACK



NVR Client



Controller IP
(IP telephone, IP access control, ...)

IP receivers
Data + power supply 52VDC



IP camera



IP telephone



IP intercom



IP video intercom



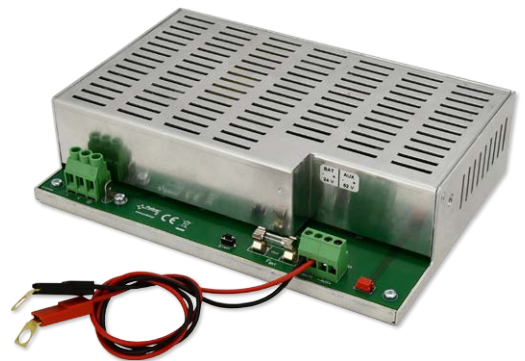
IP access control



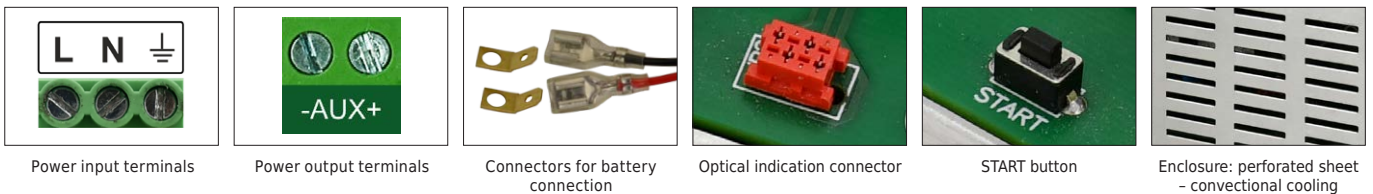
Access Point IP

Enclosed buffer power supply units 52VDC PWB series

- power supply: 200÷240VAC
- available models: 52VDC / 1,15A
52VDC / 2,3A
- dedicated for PoE supplying systems
- START button for manual battery connection
- deep discharge battery protection (UVP)
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - surge protection
- optional equipment:
 - set of LED optical indication PKAZ168
 - DIN4 mounting plate
- warranty: 2 years from production date

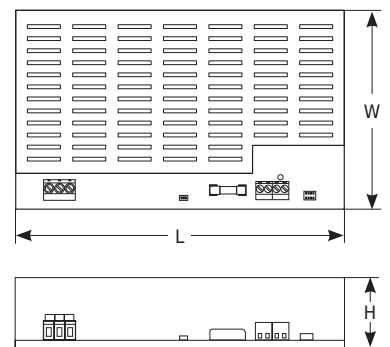
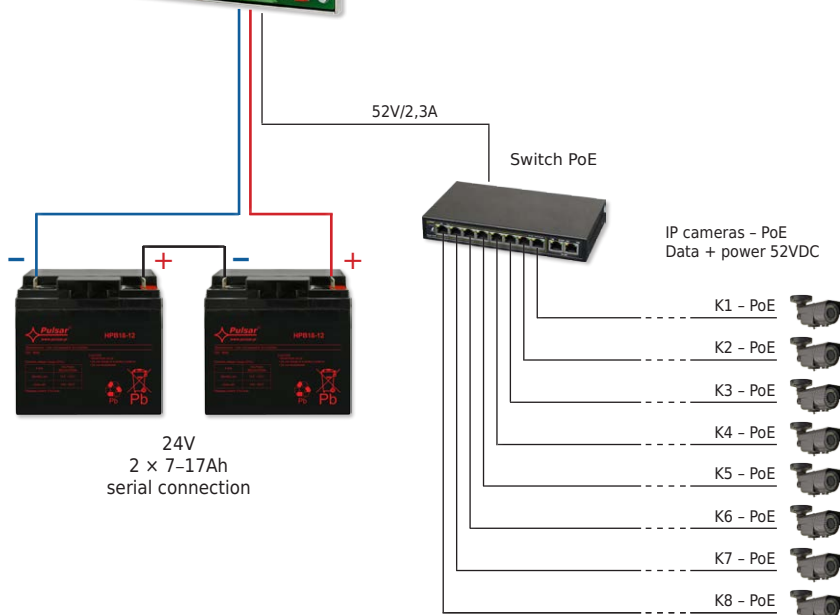


Sample product:
PWB-52V2A

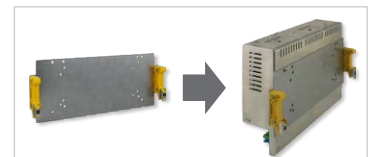


Code	Output voltage	Total current	Battery charging current	Battery	Dimensions LxWxH [+/- 2mm]
PWB-52V1A	52VDC	1,15A	0,5A	1 x 7÷17Ah	200x120x48
PWB-52V2A		2,3A		2 x 7÷17Ah	204x141x52

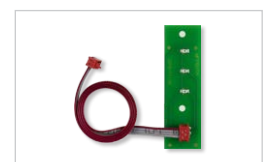
Sample product: PWB-52V2A



Accessories:



DIN4
Mounting plate (allows mounting power supplies on TH35 rail)



PKAZ168
Set for optical indication

PoE switches for IP cameras with power supply, in hermetic enclosure - IP56 S...H, SG...H series

- supports devices compliant with IEEE 802.3af / at standard
- 10/100 Mb/s and 1 Gb/s *
- PoE ports - data transfer and power supply
- Long Range mode: STANDARD - 100m/100 Mb/s or EXTEND - 250m/10 Mb/s *
- 30W for each PoE port - 52VDC (PoE+)
- RJ45 UPLINK ports: 2 ports - for recorder / switch / computer installation *
- hermetic enclosure - IP56
- warranty: 1 year from production date

* depending on model

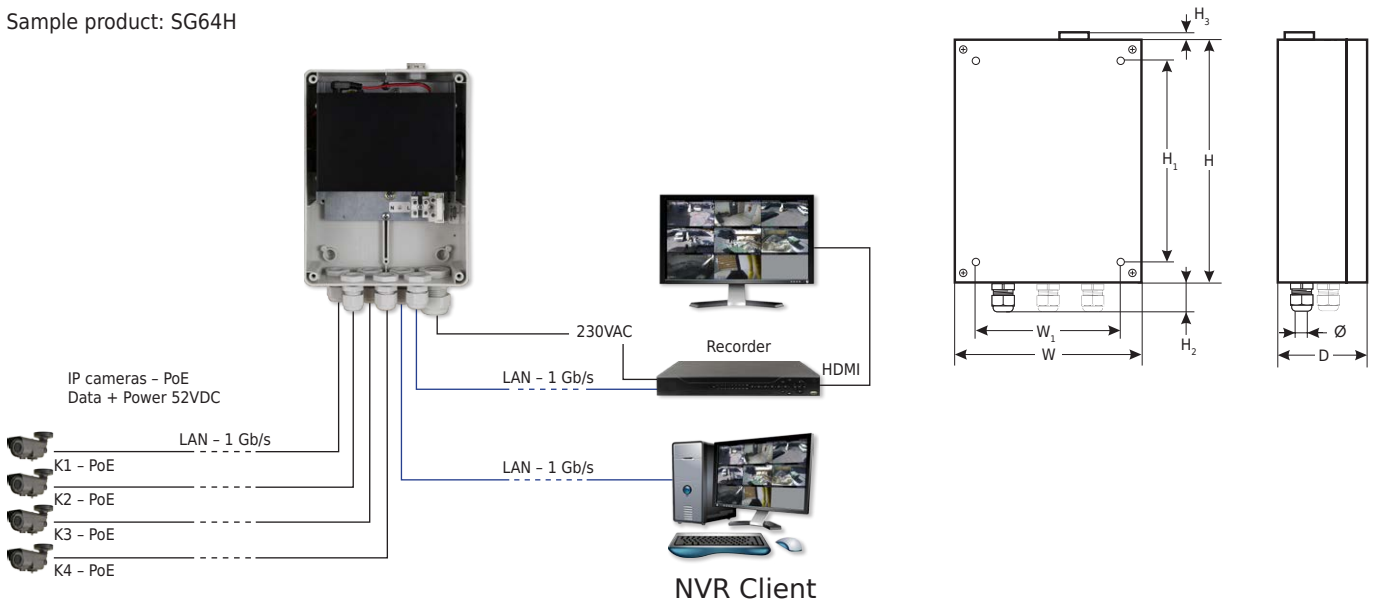


Sample product:
SG64H



Code	Number of ports: PoE	Long Range mode 100 Mb/s - up to 100m 10 Mb/s - up to 250m	Number of ports: UPLINK	Power supply	Number of cable glands / Ø cables	Dimensions WxHxD [+/- 2mm]
S64H	4 - 100 Mb/s	✓ (ports 1+4)	2 - 100 Mb/s	230VAC	6 pcs. / 4÷8mm 1 pcs. / 10÷14mm	146×196×78
SG64H	4 - 1 Gb/s	—	2 - 1 Gb/s			

Sample product: SG64H



Accessories:



OZB2 / OZB3 / OZB4



Pole mounting horizontally or vertically

SFP fiber optic modules for switches of SF..., SFG..., ISFG..., ISF... series GBIC series

- fiber type: single mode (SM) / multimode (MM) *
- optical connector Type: LC / SC *
- wavelength: 1310nm / 1310nm *
1310nm / 1550nm *
1550nm / 1310nm *
- transmission range: up to 2km / up to 20km *
- transmission speed: 1,25 Gb/s
- standards and protocols: IEEE 802.3z 1000Base-FX
- power supply: 3,3VDC (power from SFP port)
- notes:
 - built-in DDM (Digital Diagnostics Monitoring)
 - module has snap-lock system for optical connectors
- warranty: 2 years from production date



Sample product:
GBIC-101

* depending on model



Optical Connector Type:
2xLC

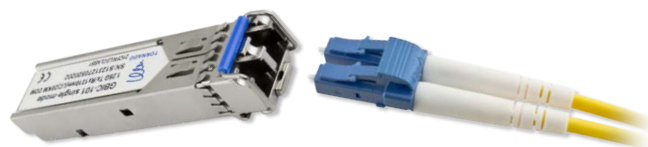
Optical Connector Type:
1xSC

Optical Connector Type:
1xLC

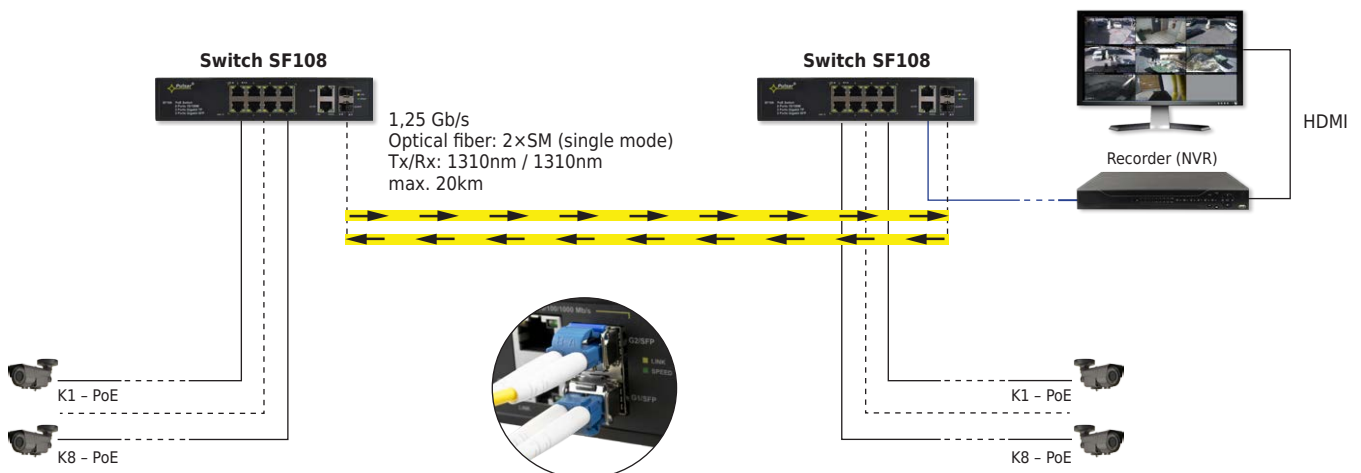
Module has
snap-lock system for
optical connectors

Code	Fiber type	Optical Connector Type	Wavelength Tx / Rx	Transmission range	Transmission speed
GBIC-101	SM	2xLC	1310nm / 1310nm	20km	1,25 Gb/s
GBIC-102	MM		1310nm / 1310nm	2km	
GBIC-103	SM	1xSC	1310nm / 1550nm	20km	
GBIC-104			1550nm / 1310nm		
GBIC-105		1xLC	1310nm / 1550nm		
GBIC-106			1550nm / 1310nm		

Sample product: GBIC-101



Optical Connector Type
2xLC



Twisted pair wires

U/UTP - unshielded, F/UTP - shielded, Category 5e / 6

PU-NC series

Destination:

- IP video surveillance systems (especially recommended for IP systems PoE)
- HD CCTV systems (CVI, TVI, AHD) - video, audio and power transmission
- ICT systems (LAN networks)

- Material - Cu (99,99%)
- cable length in package 305m - marker on cable every 1m
- U/UTP - unshielded / F/UTP - shielded *
- bending radius 40mm
- category 5e / 6 *
- reaction to fire class: Fca / Eca *
- indoor / outdoor *
- 2 / 5 years warranty *

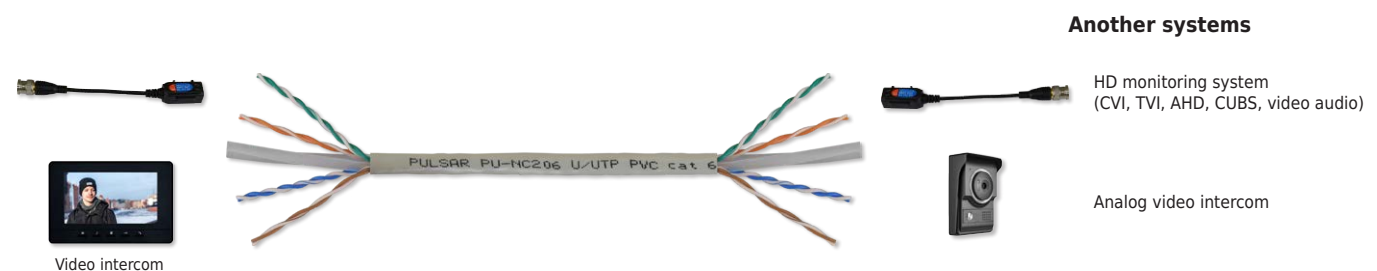
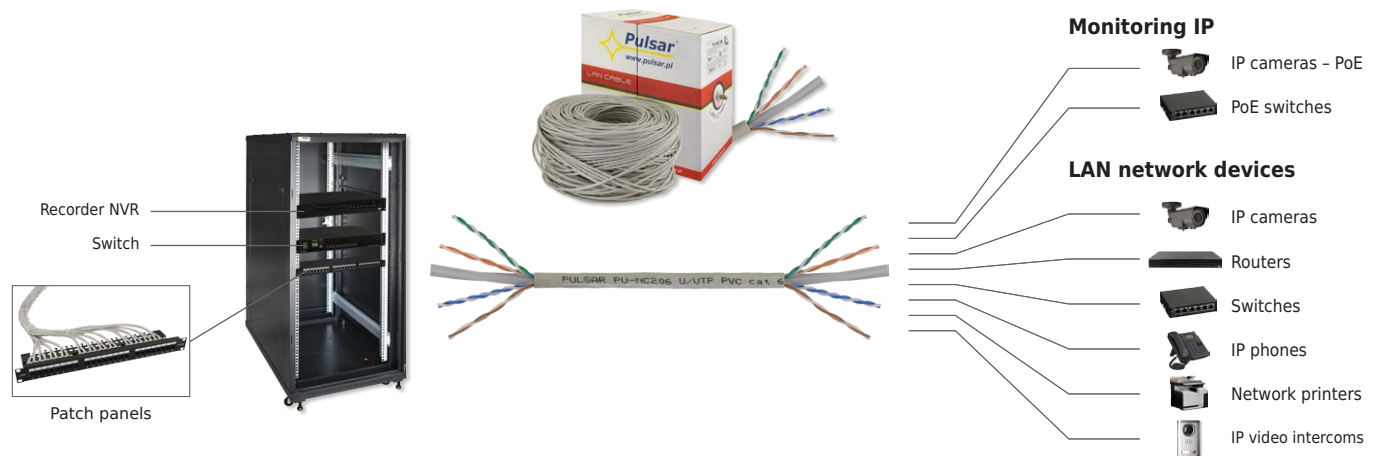
* depending on model



Sample product:
PU-NC206

Code	Category	Type	Destination	Ø cables / cores [mm]	Material	Colour	Package dimensions [mm]
PU-NC200	5e	U/UTP	indoor	4,5 / 0,45	PVC	RAL7035 (grey)	345×345×190
PU-NC201	5e	U/UTP	indoor	5,0 / 0,50	PVC	RAL7032 (grey-beige)	355×355×200
PU-NC206	6	U/UTP	indoor	6,3 / 0,55	PVC	RAL7032 (grey-beige)	410×410×210
PU-NC211	5e	F/UTP	indoor	6,2 / 0,50	PVC	RAL7032 (grey-beige)	410×410×210
PU-NC301	5e	U/UTP	outdoor	5,3 / 0,50	PE	RAL9005 (black)	385×385×210

Sample product: PU-NC206

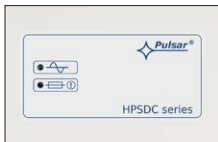


Multi-output power supply units 12VDC with failure outputs HPSDC series

- power supply: 200÷240VAC
- voltage adjustment range: 12÷15VDC
- fuse type: glass fuse
- FPS technical output, fuse failure - relay type: 1A@ 30VDC / 50VAC
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - OVP overvoltage protection
 - surge protection
 - antisabotage protection (unwanted enclosure opening)
- notes:
 - surface mounted enclosure, closing - screwed (lock assembly possible)
- warranty: 2 years from production date



Sample product:
HPSDC-12V16x1A



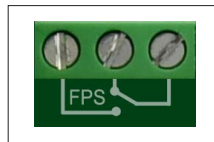
LED optical indication



Tamper switch indicating enclosure opening - 1 piece



Fuse-protected outputs: glass fuse



Technical outputs relay type FPS - fuse failure



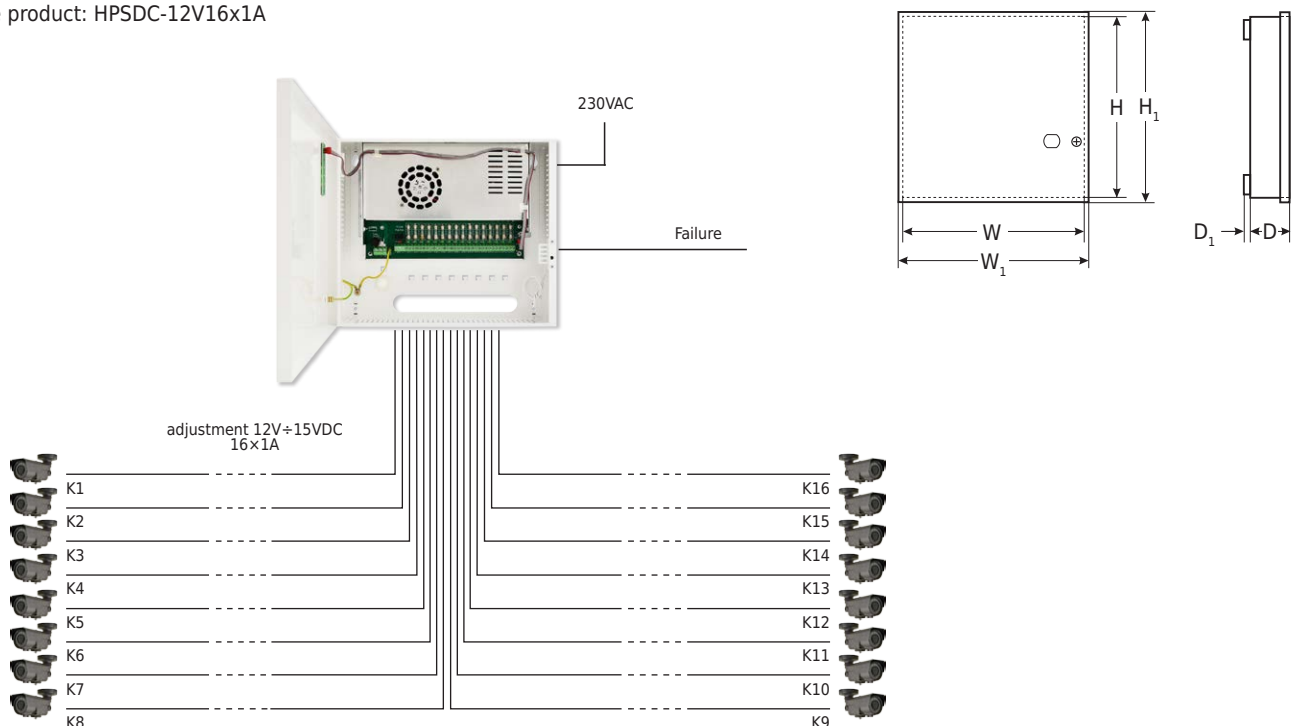
Removable hinges



Spacers (plastic) - 8mm

Code	Output voltage	Output current	Number of outputs	Fuse type	Technical output	Dimensions W×H×D+D ₁ [+/- 2mm] W ₁ ×H ₁ [+/- 2mm]
HPSDC-12V4x1A	12VDC (12-15VDC)	4A	4×1A	1,0A - glass fuse	✓	270×200×68+8 275×205
HPSDC-12V8x1A		7A	8×0,875A		✓	
HPSDC-12V16x1A		15A	16×0,94A		✓	300×258×78+8 305×262

Sample product: HPSDC-12V16x1A

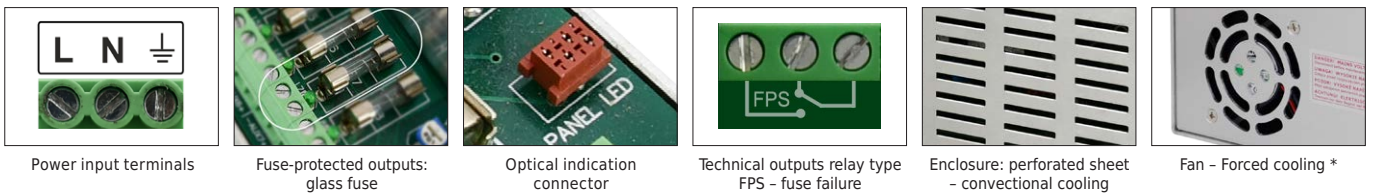


Enclosed multi-output power supply units 12VDC with failure outputs PSDC series

- power supply: 200÷240VAC
- voltage adjustment range: 12÷15VDC
- fuse type: glass fuse
- FPS technical output, fuse failure - relay type: 1 A@ 30VDC / 50VAC
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - OVP overvoltage protection
 - surge protection
- optional equipment:
 - set of LED optical indication PKAZ168
 - DIN4 mounting plate (possibility of mounting power supplies on TH35 rail)
- warranty: 2 years from production date



Sample product:
PSDC-12V8x1A



Power input terminals

Fuse-protected outputs:
glass fuse

Optical indication
connector

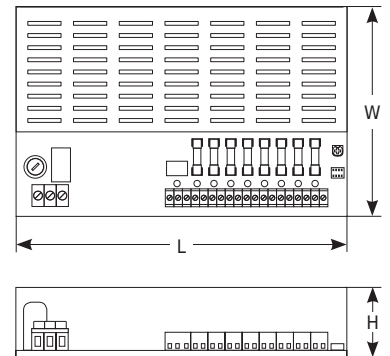
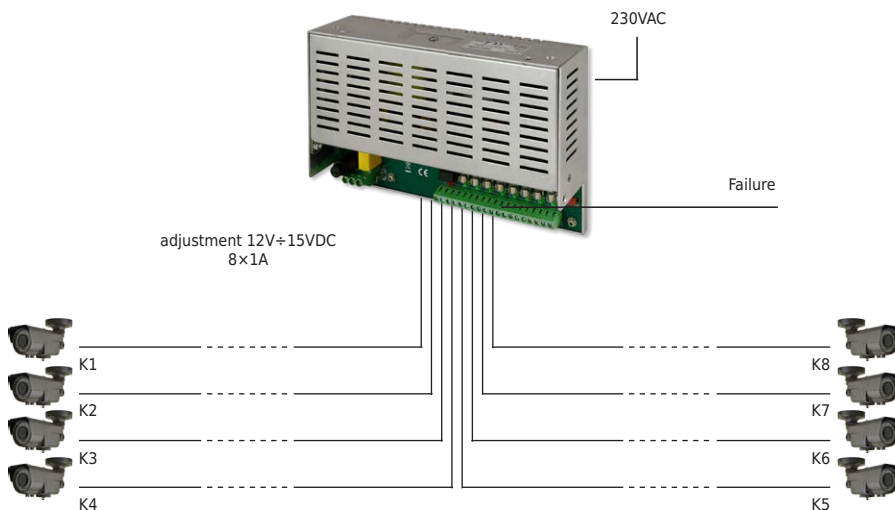
Technical outputs relay type
FPS - fuse failure

Enclosure: perforated sheet
- convective cooling

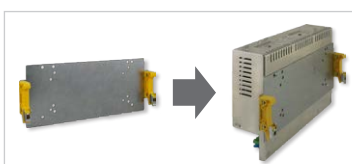
Fan - Forced cooling *

Code	Output voltage	Output current	Number of outputs	Fuse type	Technical output	Dimensions LxWxH [+/- 2mm]
PSDC-12V4x1A	12VDC (12-15VDC)	4A	4x1A	1,0A - glass fuse	✓	200x120x48
PSDC-12V8x1A		7A	8x0,875A		✓	204x141x52
PSDC-12V16x1A		15A	16x0,94A		✓	237x168x55

Sample product: PSDC-12V8x1A

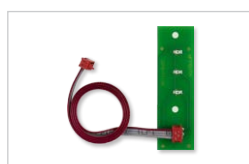


Accessories:



DIN4

Mounting plate (allows mounting power supplies on TH35 rail)

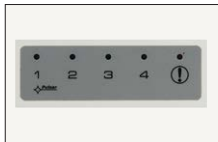
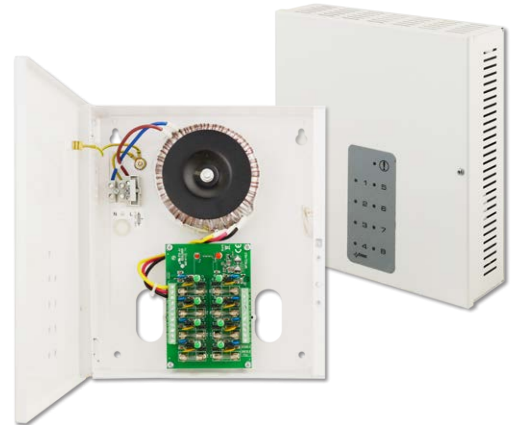


PKAZ168

Set for optical indication

Multi-output power supply units ~24VAC with failure outputs PSAC series

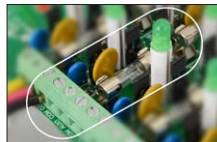
- power supply: 230VAC / 50Hz
- output voltage: ~24VAC or ~27VAC
- fuse type: glass fuse / PTC
- technical outputs OC type:
 - FPS – indication of fuse failure
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - OHP overheat protection
 - surge protection
 - antisabotage protection
- notes:
 - surface mounted enclosure, closing – screwed
- warranty: 5 years from production date



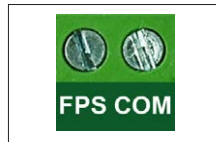
LED optical indication



Tamper switch indicating enclosure opening - 1 piece



Fuse type: glass fuse / PTC



Technical outputs - OC type
FPS - fuse failure

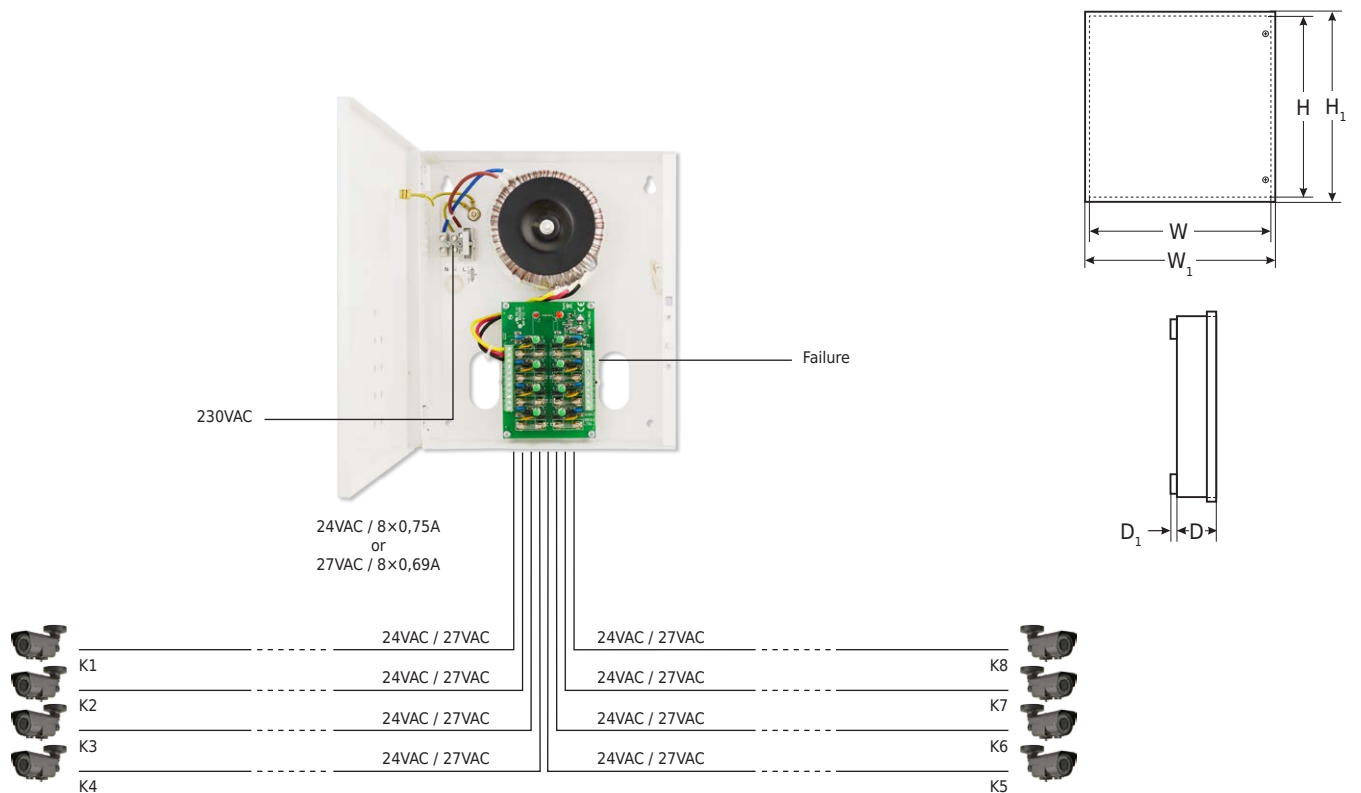


Removable hinges



Spacers (plastic) - 8mm

Code	Output voltage	Output current	Number of outputs	Fuse type (jumper selectable fuse type)	Technical outputs	Dimensions W×H×D+D ₁ [± 2mm] W ₁ ×H ₁ [± 2mm]
PSAC08246	24VAC or 27VAC	6,0A or 5,5A	8×0,75A or 8×0,69A	1,0A - glass fuse / PTC	✓	210×242×62+8 214×246



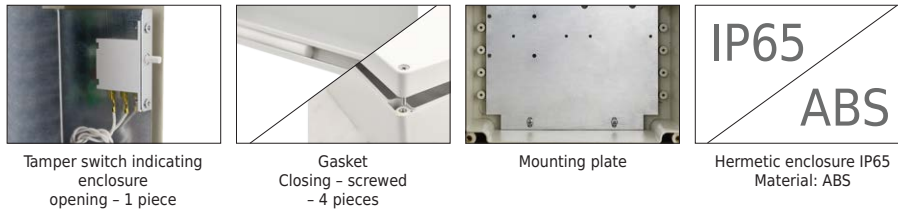
Multi-output power supply units ~24VAC in hermetic enclosure IP65 PSACH series

- power supply: 230VAC / 50Hz
- fuse type: glass fuse
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - OHP overheat protection
 - antisabotage protection
- notes:
 - hermetic enclosure IP65, ABS
 - surface mounted enclosure, closing - screwed
 - glands mounted - 2 pcs.
- warranty: 2 years from production date

* depending on model

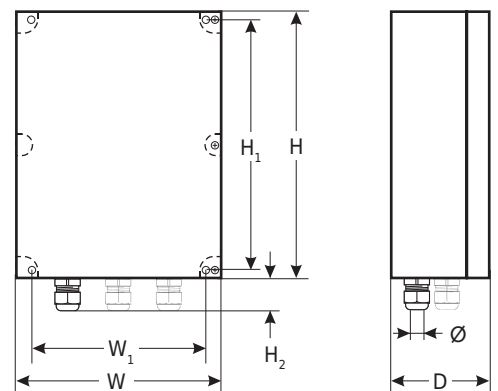
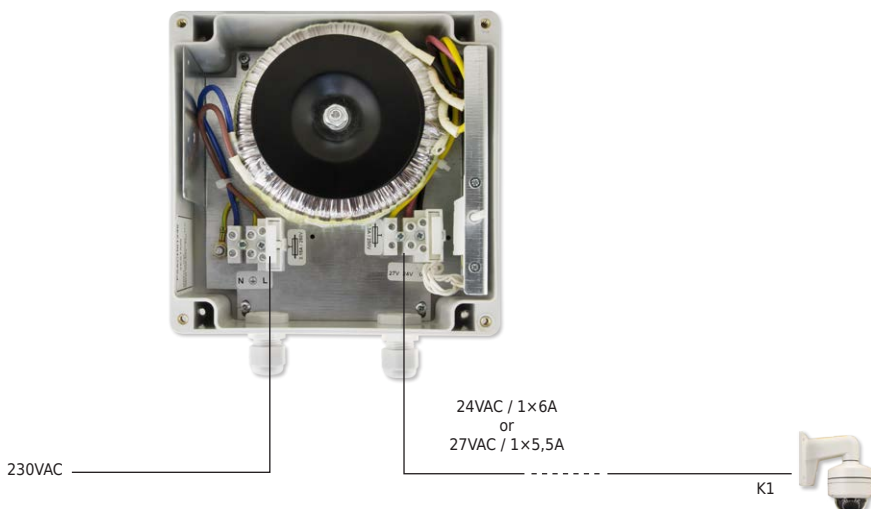


Sample product:
PSACH01246



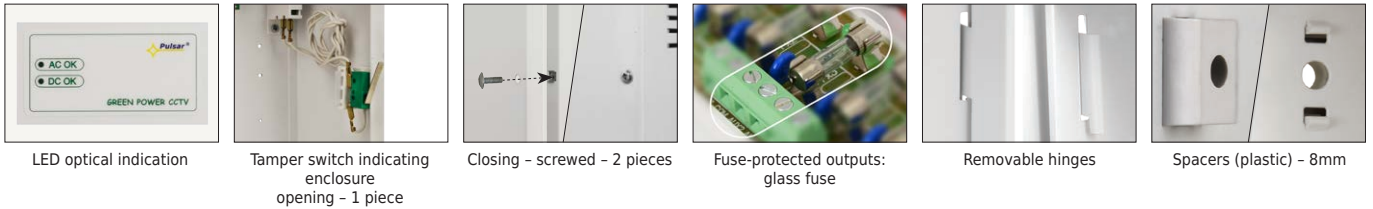
Code	Output voltage	Output current	Number of outputs	Fuse type	Number of cable glands / Ø cables	Mounting dimensions W ₁ ×H ₁ [± 2mm]	Dimensions W×H×D [± 2mm] H ₂ [± 2mm]
PSACH01244	24VAC or 27VAC	4,0A or 3,7A	1×4,0A or 1×3,7A	4,0A - glass fuse	2 pieces / 4÷8mm	126×145	160×160×90 25
PSACH01246		6,0A or 5,5A	1×6,0A or 1×5,5A	6,0A - glass fuse			

Sample product: PSACH01246

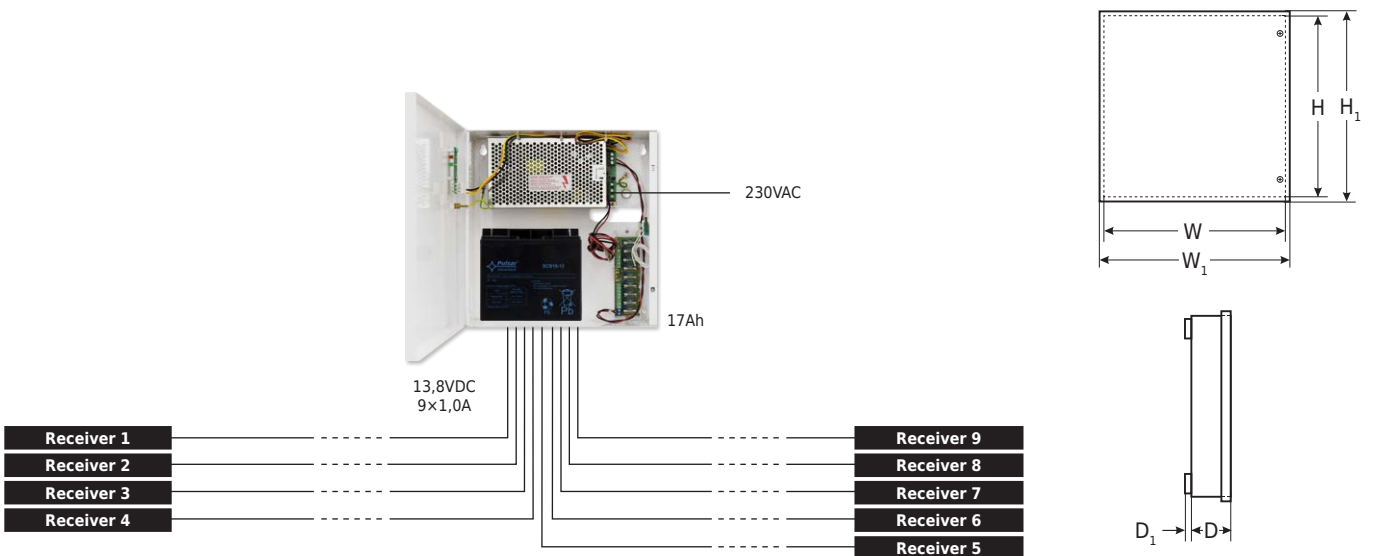


Multi-output buffer power supply units 13,8VDC PSDCB series

- power supply: 176÷264VAC
- output voltage: 13,8VDC
- battery charging current: 1A / 4A
- fuse type: glass fuse
- fitting battery: 17Ah
- deep discharge battery protection - UVP
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - OVP overvoltage protection
 - surge protection
 - OHP overheat protection
 - antisabotage protection
- notes:
 - surface mounted enclosure, closing - screwed (lock assembly possible)
- warranty: 2 years from production date



Code	Output voltage	Total current	Number of outputs	Battery charging current	Fitting battery	Fuse type	Dimensions W×H×D+D ₁ [+/- 2mm] W ₁ ×H ₁ [+/- 2mm]
PSDCB09129C	13,8VDC	11,0A	9×1,0A	1,0A / 4,0A	17Ah	1,0A - glass fuse	280×292×82+8 285×296



Receiver e.g.



Camera



Detector



Indicator



Electromagnetic lock



Electric strike



Intercom



Video intercom

Buffer power supply units 13,8VDC/12VDC for HD cameras and DVR with recorder space PSUPS...CR series

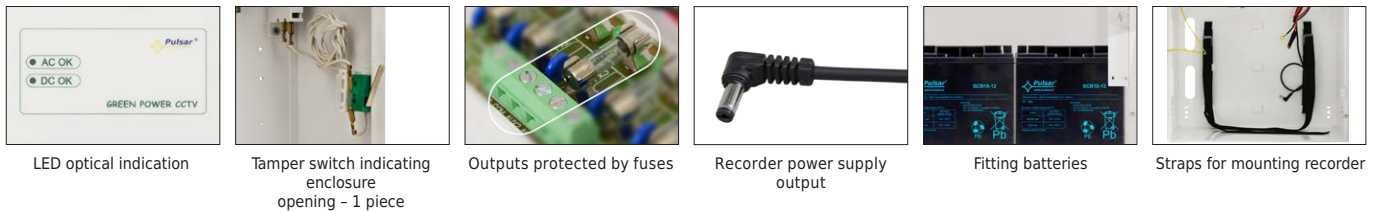
Enclosure construction is compliant with requirements of General Data Protection Regulation GDPR (possibility of installing two locks with different codes).

- power supply: 176÷264VAC
- output voltage: 13,8VDC, 12VDC
- battery charging current: 1A / 2A / 4A / 8A *
- fuse type: glass fuse
- fitting battery: 17Ah / 2×17Ah * - parallel connection
- deep discharge battery protection - UVP
- protections:
 - SCP short circuit protection, OLP overload protection,
 - OVP overvoltage protection, surge protection, OHP overheat protection, *
 - antisabotage protection,
- notes:
 - enclosure with recorder space
 - surface mounted enclosure, closing - screwed
 - built-in power factor correction system (PFC) *
 - forced cooling - built-in fan *
- warranty: 2 years from production date



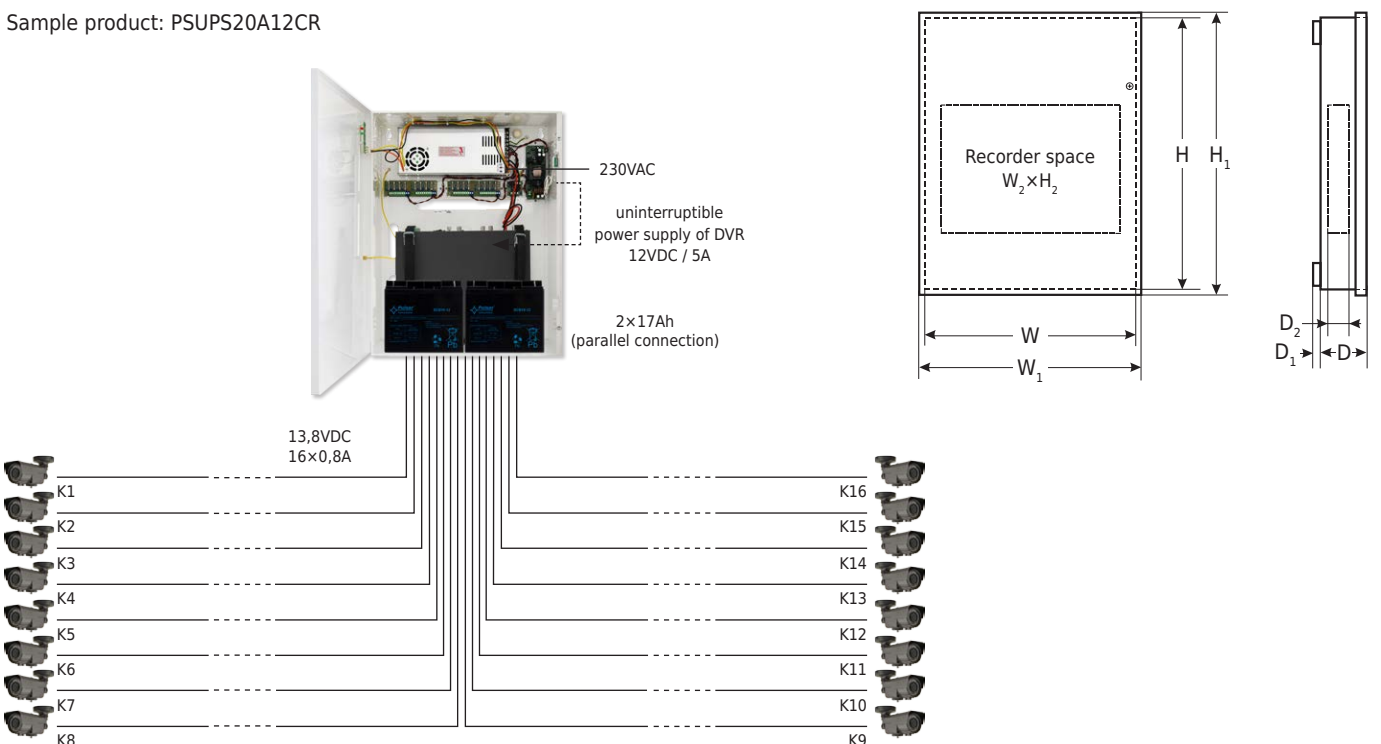
Sample product:
PSUPS20A12CR

* depending on model



Code	Circuit	Output voltage	Total current	Number of outputs	Battery charging current	Fuse type	Fitting battery	Dimensions of recorder space W ₂ ×H ₂ ×D ₂ [+/- 2mm]	Dimensions W×H×D+D ₁ [+/- 2mm] W ₁ ×H ₁ [+/- 2mm]
PSUPS10A12CR	cameras	13,8VDC	11A	8×0,75A	1A	1,0A - glass fuse	2×17Ah	380×320×65	420×535×193+14
	recorder	12VDC		1×4,0A		5,0A - glass fuse			
PSUPS20A12CR	cameras	13,8VDC	20A	16×0,8A	2A / 4A / 8A	1,0A - glass fuse	2×17Ah (parallel connection)	380×320×65	425×540
	recorder	12VDC		1×5,0A		5,0A - glass fuse			

Sample product: PSUPS20A12CR



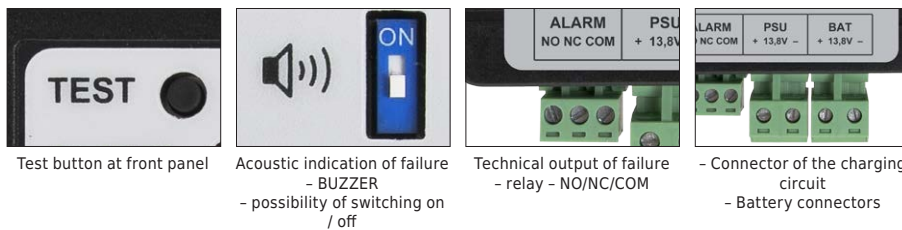
Battery controllers: 12VDC / 24VDC / 48VDC AWZ series

- cooperation with 13.8VDC / 27.6VDC / 54VDC uninterruptible power supply units *
- microprocessor-based automation system
- automatic battery test performed every 5 minutes
- test button at front panel
- measurement of resistance of battery circuit
- battery electrical continuity control
- battery detection
- low battery voltage indication - DC operation
- battery output protection against short-circuit and reverse connection
- technical output of failure - relay - NO/NC/COM
- acoustic indication of failure - BUZZER - possibility of switching on / off
- optical indication of failure - LED
- warranty: 2 years from production date

* depending on model



Sample product:
AWZ632



Test button at front panel

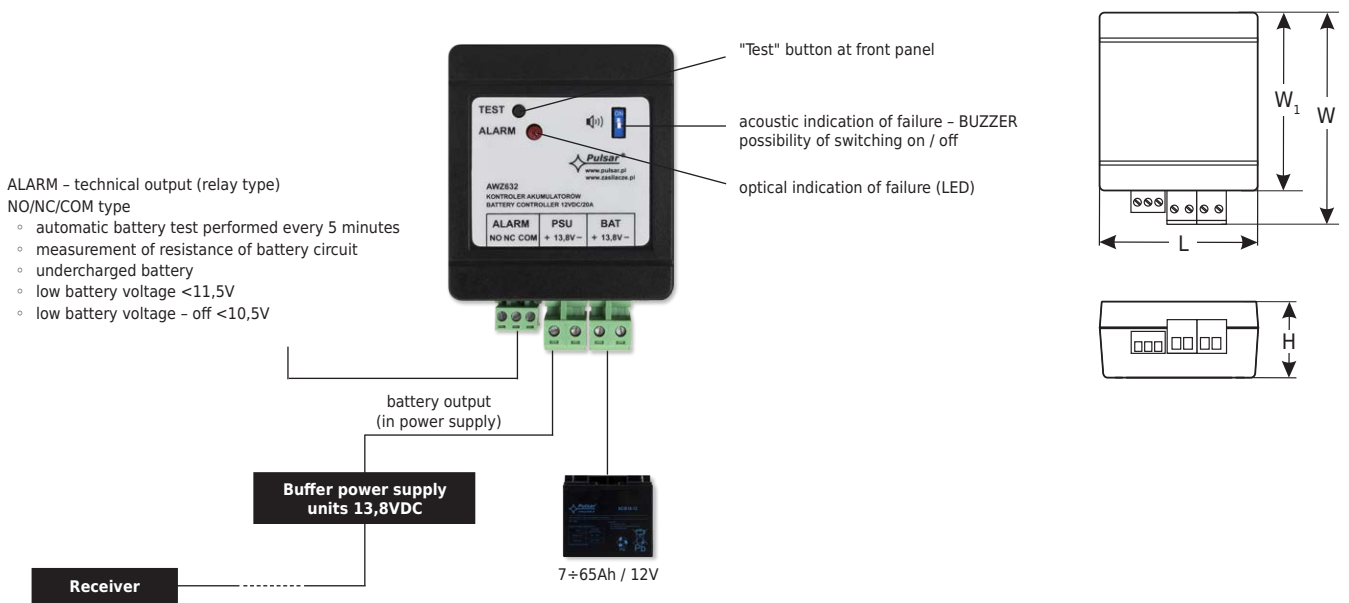
Acoustic indication of failure - BUZZER
- possibility of switching on / off

Technical output of failure - relay - NO/NC/COM

- Connector of the charging circuit
- Battery connectors

Code	Fuse type	Output voltage	Current (max.)	Maximum total capacity	Technical outputs of alarm	Dimensions LxWxH [+/- 2mm]
AWZ632	1x glass fuse - 25A	13,8VDC	20A	65Ah	✓	80x108x38
AWZ633	1x glass fuse - 15A	27,6VDC	10A	40Ah		
AWZ634	1x glass fuse - 7,5A	54VDC	5A	18Ah		

Sample product: AWZ632



Receiver e.g.



Camera



Detector



Indicator



Electromagnetic lock



Electric strike



Intercom



Video intercom

DSO-PRA Power System for PRAESENSA system by BOSCH

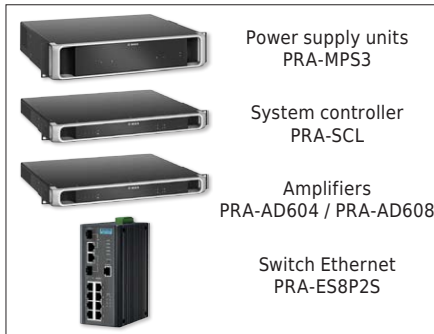


In accordance with
EN54-4, EN12101-10 standard

VAS cabinets

Devices VAS: BOSCH - PRAESENSA

Fans, thermostat, batteries, wheels



Protection terminal block,
230VAC voltage distribution terminal,
Indication panel

Enclosure of firefighter's microphone,
End of Line (EOL) Supervision Board



Configuration software for DSO-PRA - Bosch PRAESENSA

Ethernet communication (BOSCH)



DSOP24V Power System for PAVIRO system by BOSCH



MTP Gold Medal
Securex 2018

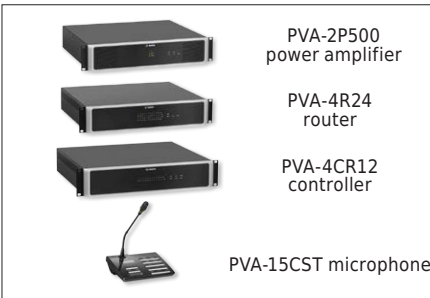


In accordance with
EN54-4, EN12101-10 standard

VAS cabinets



Devices VAS: BOSCH - PAVIRO



Fans, thermostat, batteries, wheels



Power supplies for 350W - 1000W
Voice Alarm Systems



Protection terminal block,
230VAC voltage distribution terminal,
Indication panel



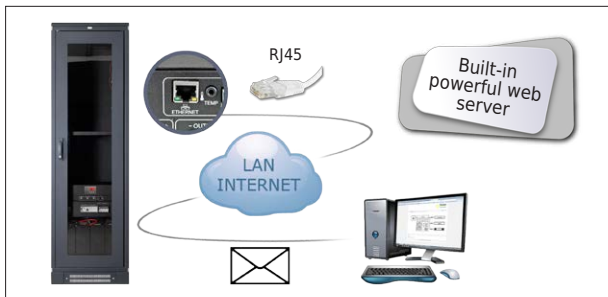
Firefighter's microphone power supply unit,
Enclosure of firefighter's microphone,
End of Line (EOL) Supervision Board



Configuration software for DSOP24V - Bosch



Ethernet communication

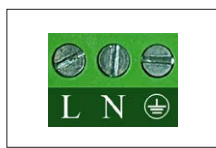


Buffer power supplies for DIN rail 13,8VDC / 27,6VDC DINB series

- power supply: 176÷264VAC
- impulse voltage stabilizer
- deep discharge battery protection (UVP)
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - surge protection
- warranty: 2 years from production date



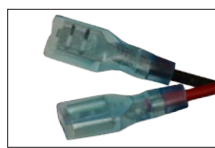
Sample product:
DINB13850



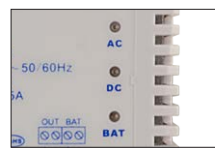
Power input terminals



Power output terminals



Connectors for battery connection



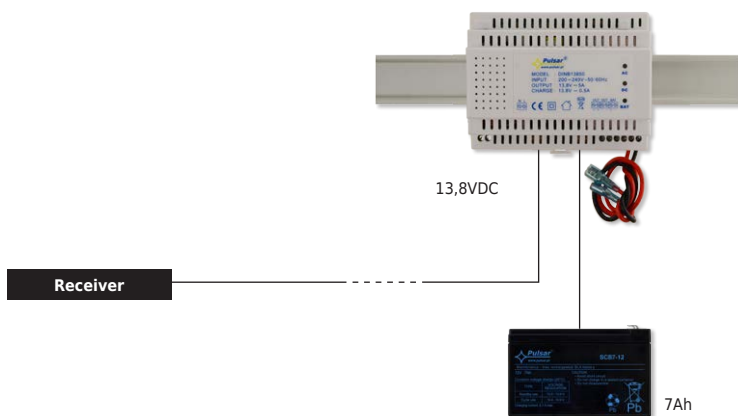
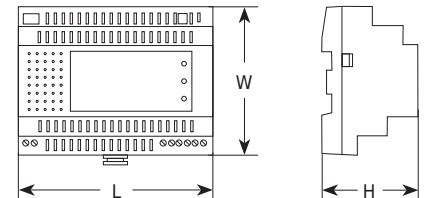
LED optical indication



Mounting on a DIN rail (TH35)

Code	Output voltage	Total current	Battery charging current	Dimensions L×W×H [+/- 2mm]
DINB13850	13,8VDC	5,5A	0,5A	122×93×60
DINB27630	27,6VDC	3,2A	0,2A	122×93×60

Sample product: DINB13850



Receiver e.g.



Camera



Detector



Indicator



Electromagnetic lock



Electric strike



Intercom



Video intercom

Plug-in type power supplies 12VDC PSA series

- power supply: 100÷240VAC
- cable length DC - 1,45 m
- output - JACK plug - DC 5.5/2.1 - female
- standby power <0,1W / <0,3W *
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - surge protection (AC input)
- warranty: 2 years from production date

* depending on model



Sample product:
PSA12020



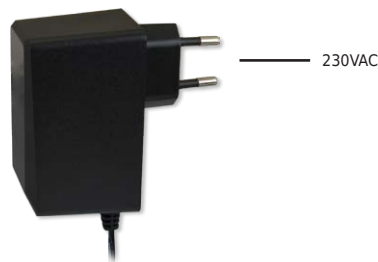
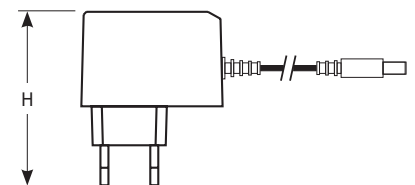
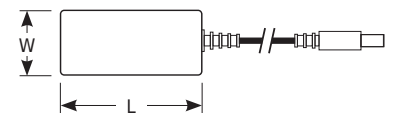
230VAC plug



DC plug 5.5/2.1
female

Code	Output voltage	Output current	Dimensions L×W×H [+/- 2mm]
PSA12005	12VDC	0,5A	59×39×65
PSA12010		1,0A	64×28×78
PSA12020		2,0A	78×36×85
PSA12030		3,0A	90×36×94

Sample product: PSA12020



12VDC
2,0A



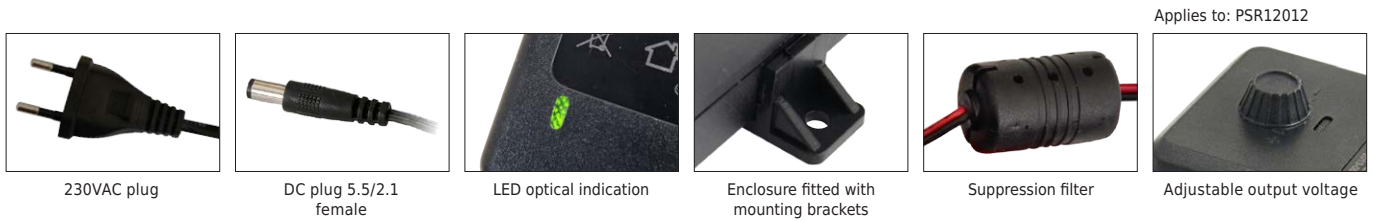
Desktop type power supplies 12VDC / 15VDC / 52VDC / 12÷15VDC PSD, PSR series

- power supply: 90÷264VAC
- standby power <0,3W; <0,5W *
- set includes 230VAC power cable
- cable length DC - 1,45m / 1,5m *
- output - JACK plug - DC 5.5/2.1 - female
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - surge protection (AC input)
- warranty: 2 years from production date



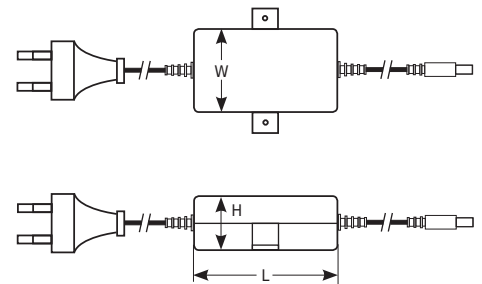
Sample product:
PSD12050

* depending on model

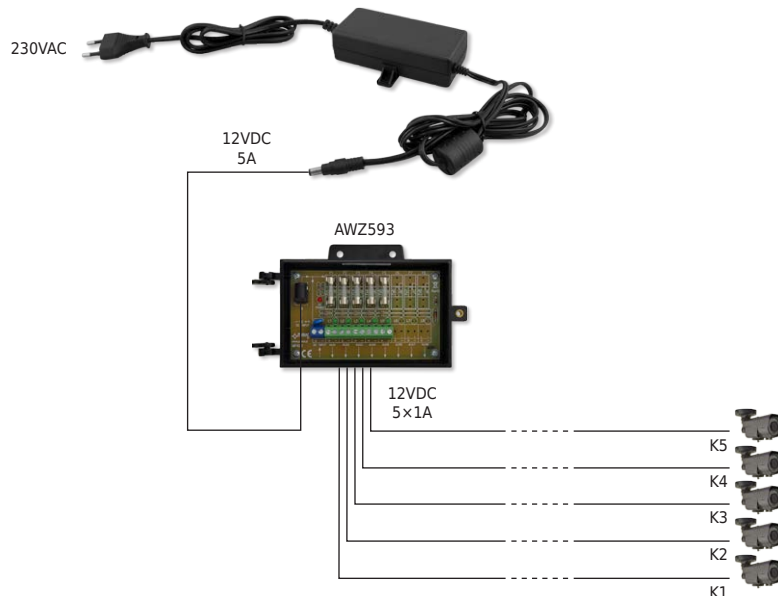


Applies to: PSR12012

Code	Output voltage	Output current	LED indication	Dimensions L×W×H [+/- 2mm]
PSD12010	12VDC	1,0A	✓	65×36×30
PSD12020		2,0A	✓	86×50×32
PSD12030		3,0A	✓	107×48×33
PSD12050		5,0A	✓	116×54×35
PSD12070		7,0A	✓	175×72×45
PSD15040	15VDC	4,0A	✓	116×54×35
PSD520115	52VDC	1,15A	✓	116×54×35
PSD520175		1,75A	—	132×61×32
PSD520230		2,3A	✓	172×73×34
PSR12012	12VDC (12÷15V)	1,2A	✓	78×48×35



Sample product: PSD12050



Power supplies 12VDC / 13,8VDC IP67 hermetic enclosure, epoxy encapsulated PSC series

- power supply: 90÷264VAC
- power supply is not fitted with 230VAC plug
- IP67 hermetic enclosure - epoxy encapsulated
- cable length DC - 0,5 m
- DC output - JACK plug - DC 5.5/2.1 - female *
- standby power <0,3W
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - surge protection (AC input)
- warranty: 2 years from production date

* depending on model



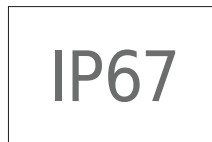
Sample product:
PSC12010



DC plug 5.5/2.1 female *



Suppression filter



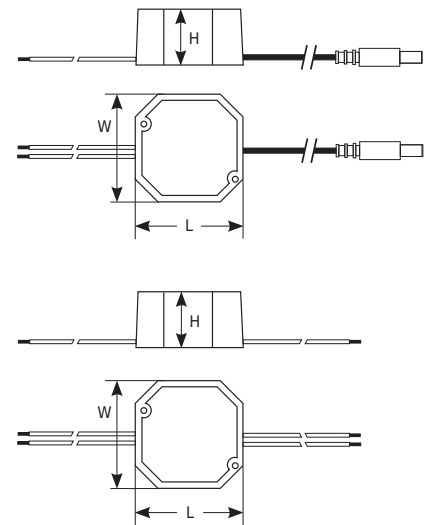
IP67

Hermetic enclosure IP67

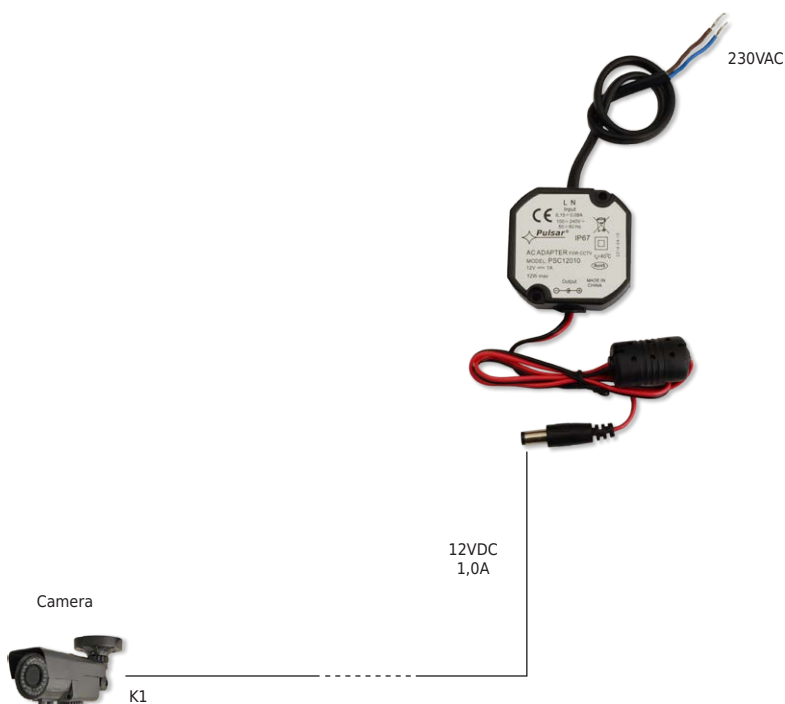


Epoxy encapsulated

Code	Output voltage	Output current	Notes	Dimensions L×W×H [+/- 2mm]
PSC12010	12VDC	1,0A	DC output - JACK plug - DC 5.5/2.1 - female	48×50×25
PSC12015		1,5A		58×58×28
PSC13008	13,8VDC	0,8A	—	48×50×25



Sample product: PSC12010



Desktop type power supplies 12VDC IP67 hermetic enclosure, epoxy encapsulated PSCL series

- power supply: 90÷264VAC
- power supply is not fitted with 230VAC plug
- IP67 hermetic enclosure - epoxy encapsulated
- cable length DC - 0,5m
- DC output - JACK plug - DC 5.5/2.1 - female
- standby power <0,3W; <0,5W *
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - surge protection (AC input)
- warranty: 2 years from production date

* depending on model



Sample product:
PSCL12050



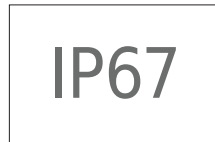
DC plug 5.5/2.1 female



Suppression filter



Enclosure fitted with mounting brackets

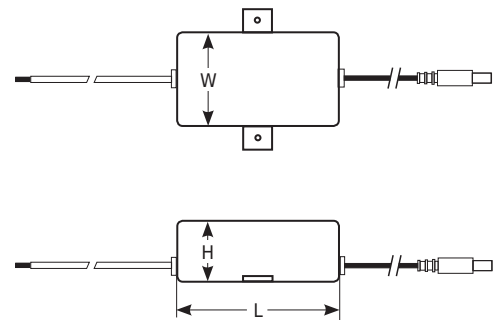


Hermetic enclosure IP67

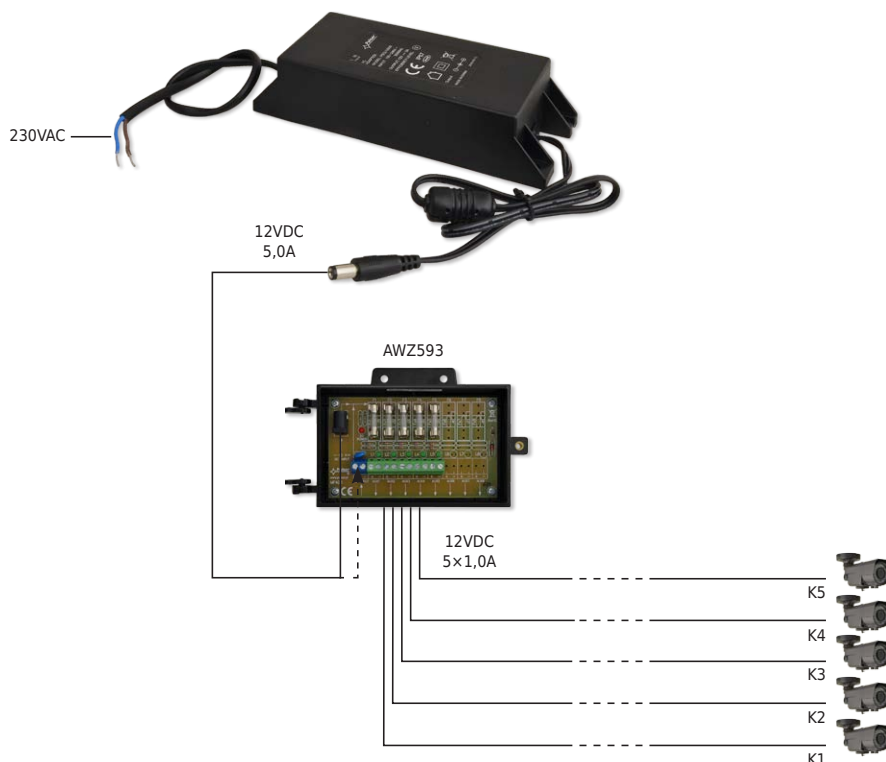


Epoxy encapsulated

Code	Output voltage	Output current	Dimensions LxWxH [+/- 2mm]
PSCL12015	12VDC	1,5A	69x44x29
PSCL12030		3,0A	135x50x33
PSCL12050		5,0A	150x56x34



Sample product: PSCL12050



Desktop type power supplies 52VDC PSP series

- power supply: 90÷264VAC
- power supply outputs: 52VDC/0,3A - PoE/RJ45
- compliance with IEEE 802.3af standard
- LED optical signalization
- protections:
 - OLP overload protection
 - overvoltage protection (AC input)
- notes:
 - designed for 10 Mb/s and 100 Mb/s network
- warranty: 2 years from production date



RJ45 connectors
- input / output



Ethernet input

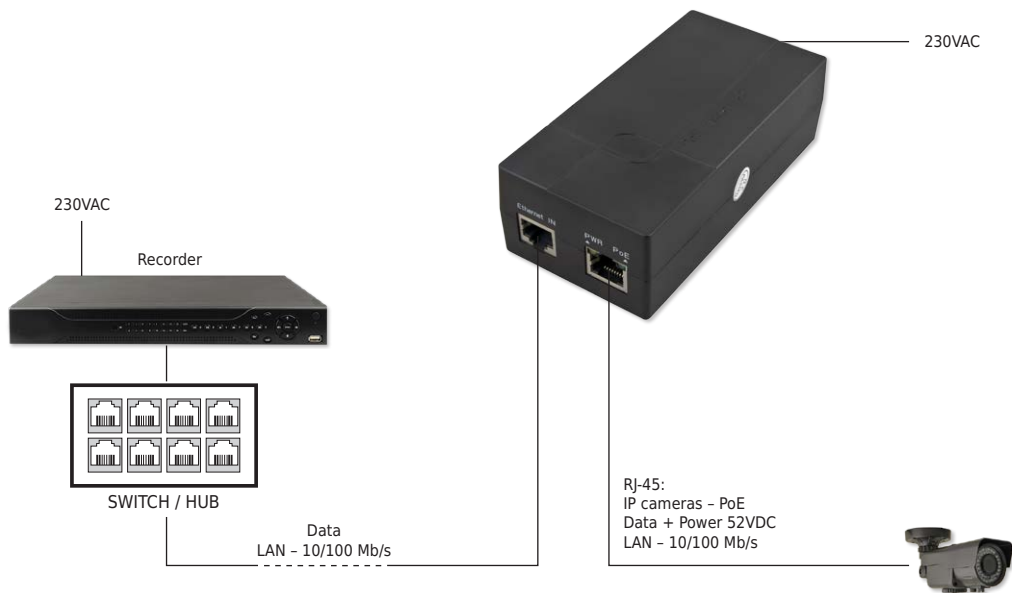
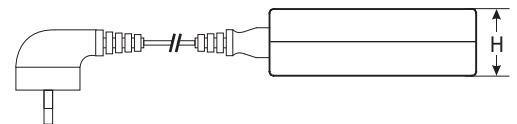
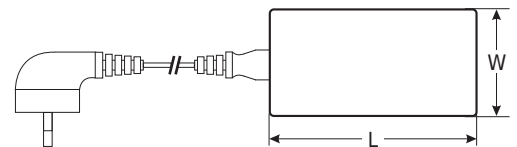


PoE output



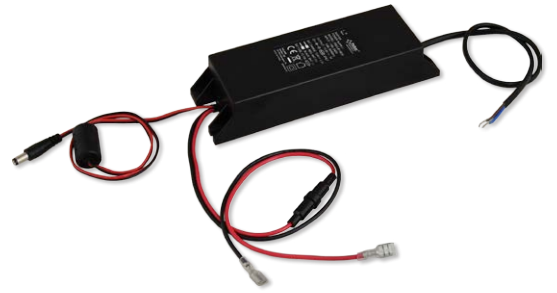
LED optical indication

Code	Output voltage	Output current	Compliance with / IEEE 802.3af standard	Dimensions L×W×H [± 2mm]
PSP52003	52VDC	0,3A	✓	119×61×38

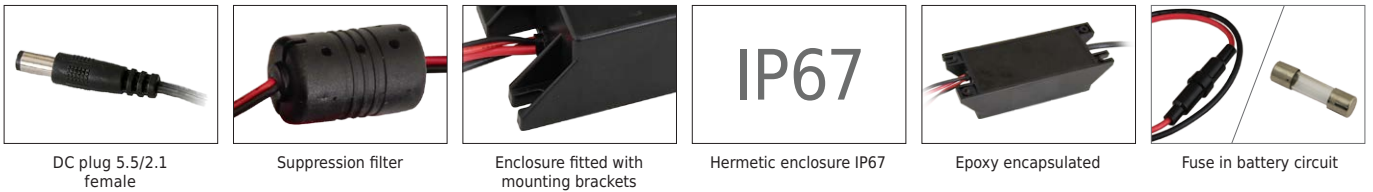


Buffer desktop type power supplies 13,8VDC IP67 hermetic enclosure, epoxy encapsulated PSCLB series

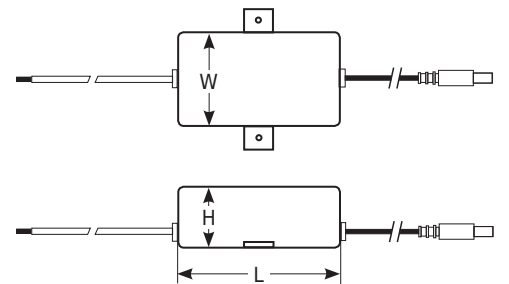
- power supply: 90÷264VAC
- power supply is not fitted with 230VAC plug
- IP67 hermetic enclosure - epoxy encapsulated
- cable length DC - 0,5m
- DC output - JACK plug - DC 5.5/2.1 - female
- deep discharge battery protection (UVP)
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - surge protection (AC input)
- warranty: 2 years from production date



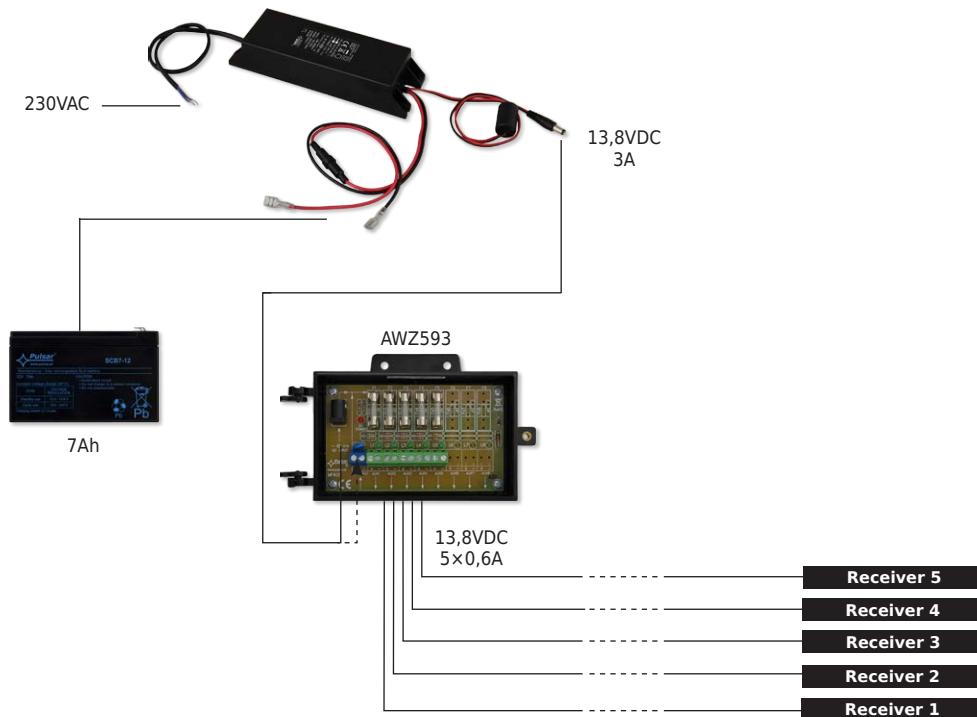
Sample product:
PSCLB13830



Code	Output voltage	Total current	Battery charging current	Dimensions LxWxH [+/- 2mm]
PSCLB13810	13,8VDC	1,3A	0,3A	135x50x33
PSCLB13820		2,3A		150x56x34
PSCLB13830		3,3A		178x56x34



Sample product: PSCLB13830



Receiver e.g.



Camera



Detector



Indicator



Electromagnetic lock



Electric strike




Intercom



Video intercom

Accessories for CCTV

Transmitters, PoE Adapters, PoE Splitters, Converters

Code	Type	Connector type input / output	Note
Transmitters			
 P-TR1HD	HD transmitters (passive)	BNC plug / UTP screw terminals	Set of passive video HD transmitters with BNC plug on cable
 P-TR1HD3	HD transmitters (passive)	BNC plug / self clinching terminal	Set of passive video HD transmitters with BNC plug on cable (self clinching terminal)
 P-TRPV1	HD transmitters (passive)	BNC plug outlet, plug JACK 5.5/2.1 / RJ45 socket	Set of passive video HD transmitters and power
PoE adapters			
 P-POE1	PoE Adapter	RJ45 socket / RJ45 plug plug JACK 5.5/2.1	Set of adapters with RJ45 and 5.5/2.1 connectors
Spiltter PoE			
 P-POE2	Splitter	RJ45 socket / 2x RJ45 plug	Splitter 2xRJ45 (plug) - 1xRJ45 (socket)
 SP-POE12	Spiltter	RJ45 socket / RJ45 plug plug JACK 5.5/2.1	Splitter PoE
Converters			
 HDMI-VGA	Converter	HDMI / VGA	Signal converter

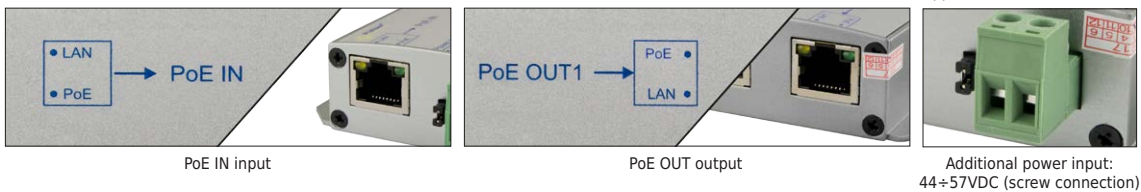
Accessories for CCTV Extenders PoE

- PoE input: PoE IN - compliant with IEEE 802.3af/at
- PoE output: PoE OUT - compliant with IEEE 802.3af *
- increases Ethernet and PoE power range by 100 meters
- supports both 10/100 Mb/s networks
- LED optical signalization
- protections:
 - SCP short circuit protection
 - surge protection (PoE input)
 - OLP overload protection
- warranty: 2 years from production date

* depending on model

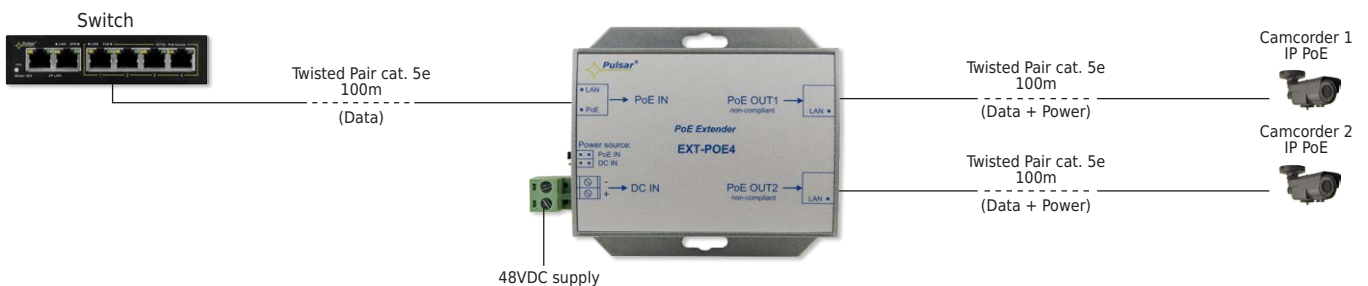
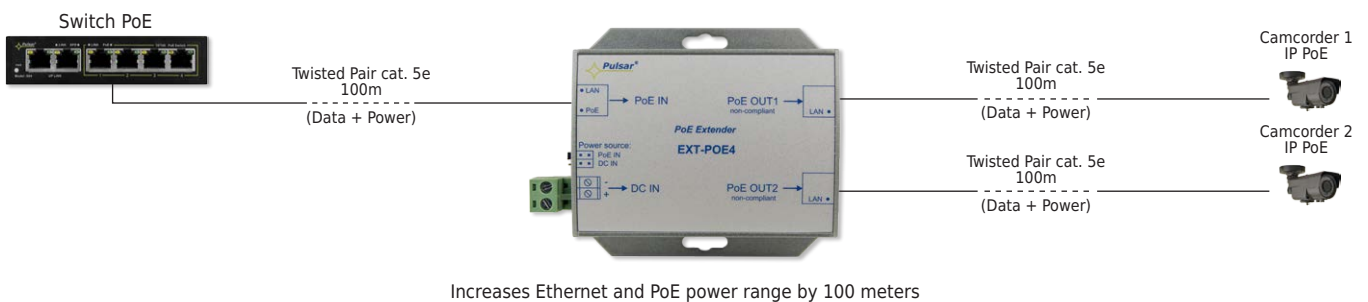


Sample product:
EXT-POE4



Code	Additional power input	RJ45 input / compliant with IEEE 802.3af/at	RJ45 output / compliant with IEEE 802.3af	Output power	Dimensions LxWxH [+/- 2mm]
EXT-POE2	—	PoE IN / compliant	PoE OUT1 / compliant PoE OUT2 / compliant	15,4W / port ($\Sigma = 20W$)	81x77x26
EXT-POE3		PoE IN / compliant	PoE OUT1 / compliant PoE OUT2 / compliant PoE OUT3 / not compliant	30W / port (OUT1/2) 15,4W / port (OUT3) ($\Sigma = 30W$)	
EXT-POE4	DC IN 44÷57VDC	PoE IN / compliant	PoE OUT1 / not compliant PoE OUT2 / not compliant	15,4W / port ($\Sigma = 20W$)	

Sample product: EXT-POE4



Use of locally powered EXT-PoE4 extender
Connection of two IP PoE cameras and extension of range for another 100 meters

Accessories for CCTV

Extenders PoE - in hermetic enclosure IP56

- PoE input: PoE IN – compliant with IEEE 802.3af/at
- PoE output: PoE OUT – compliant with IEEE 802.3af *
- increases Ethernet and PoE power range by 100 meters
- supports both 10/100 Mb/s networks
- LED optical signalization
- protections:
 - SCP short circuit protection
 - surge protection (PoE input)
 - OLP overload protection
- notes:
 - hermetic enclosure IP56
 - UV resistance
- warranty: 1 year from production date



Sample product:
EXT-POE2H

* depending on model

PoE IN input

PoE OUT output

Hermetic enclosure IP56

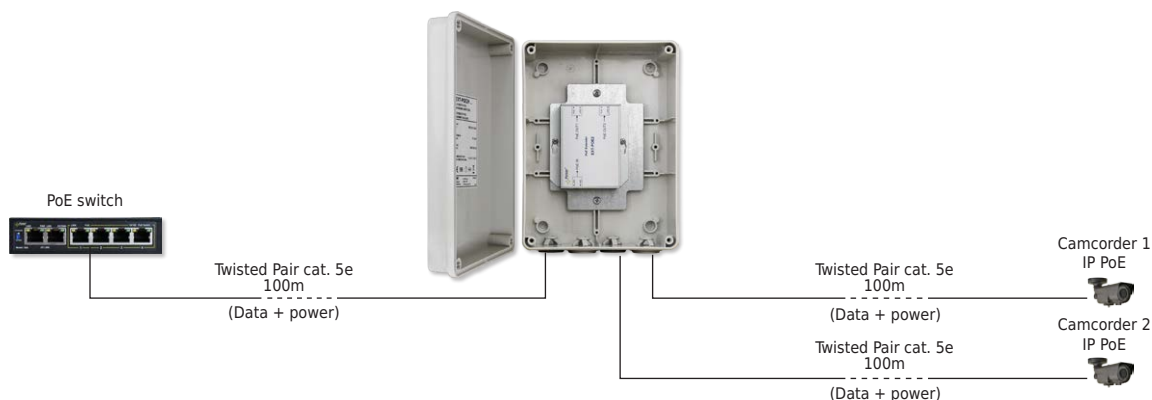
UV resistance

Additional power input:
44÷57VDC
(screw connection)

Applies to: EXT-POE4H

Code	Additional power input	RJ45 input / compliant with IEEE 802.3af/at	RJ45 output / compliant with IEEE 802.3af	Output power	Number of cable glands / Ø cables	Dimensions W×H×D [+/- 2mm]
EXT-POE2H	—	PoE IN / compliant	PoE OUT1 / compliant PoE OUT2 / compliant	15,4W / port ($\Sigma = 20W$)	4 pieces / 6÷13mm	148×198×78
EXT-POE3H		PoE IN / compliant	PoE OUT1 / compliant PoE OUT2 / compliant PoE OUT3 / not compliant	20W / port (OUT1/2) 15,4W / port (OUT3) ($\Sigma = 30W$)		
EXT-POE4H	DC IN 44÷57VDC	PoE IN / compliant	PoE OUT1 / not compliant PoE OUT2 / not compliant	15,4W / port ($\Sigma = 20W$)		

Sample product: EXT-POE2H



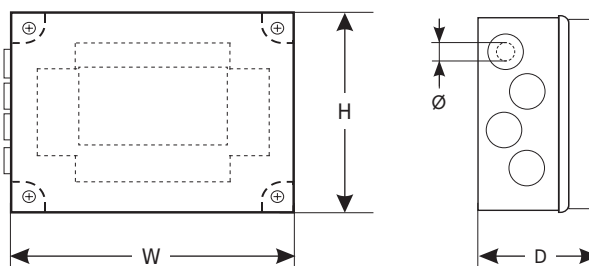
Accessories:



OZB2
(applies EXT-POE...H)



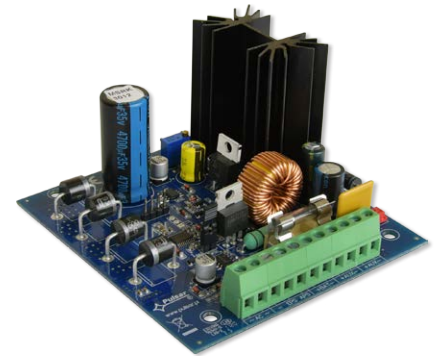
Sample assembly



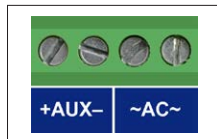
Buffer power supply modules 13,8VDC, switch mode

Compliant with EN50131-6 standard for alarm systems - GRADE 1, 2
 Compliant with EN60839-11 standard for access control - GRADE 1, 2
MSRK series

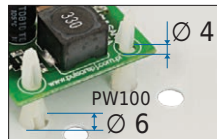
- available models: 13,8VDC / 2A; 3A
- impulse voltage stabilizer
- compliant with norm EN50131-6 in grade 1, 2, EN60839-11:2013 in grade 1, 2 and II environment class
- supply voltage: external transformer required 20-22VAC
- battery charging and maintenance control
- battery output protections: short circuit protection and reverse polarity connection
- protections:
 - SCP short circuit protection
 - OLP overload protection
- technical outputs OC type:
 - EPS - 230V power failure AC
- deep discharge battery protection (UVP)
- adjustable time indicating AC power failure
- function START allows running PSU from battery circuit
- warranty: 5 years from production date



Sample product:
MSRK3012



Power input/output terminals



Mounting: PW100 distance pins

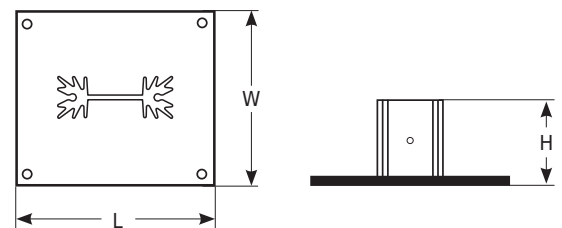


Construction - „open frame“



Technical outputs OC type: EPS

Code	Output current	Total current	Battery charging current	Technical outputs	Deep discharge battery protection	Dimensions LxWxH [+/- 2mm]
MSRK2012	13,8VDC	2,2A	0,2A / 0,5A	✓	✓	86x63x40
MSRK3012		3,5A	0,5A / 1,0A	✓	✓	88x93x55



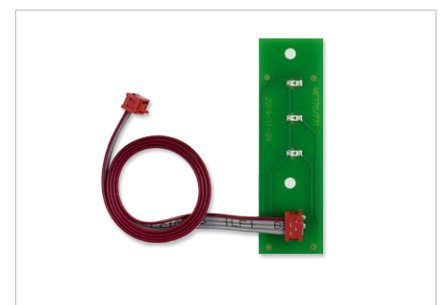
Accessories:



Transformers of TRP, TRZ series



AWZ639
 Technical outputs - relay
 (2x OC → 2x NO/NC/C)



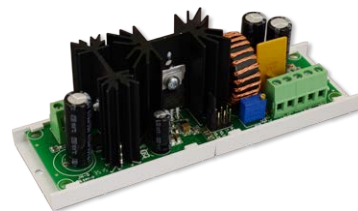
PKAZ168
 Set for optical indication
 (three LEDs indicating status of power supply)

DC/DC voltage converters

open frame, with technical output

DC/DC series

- power supply: 8÷28VDC; 28÷60VDC; 9,5÷16VDC; 9,5÷28VDC; 18÷28VDC; 20÷28VDC *
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - OVP over voltage protection *
 - OHP overheat protection *
- technical output OC type:
 - PSU - converter failure *
- notes:
 - construction: „open frame”
 - installation: mounting panel with adhesive tape / mounting screws
 - minimum difference between input voltage and output voltage is: **2÷3VDC** *
- warranty: 2 years from production date



Sample product:
DC/DC50SD

* depending on model

Code	Input voltage	Output voltage	Output current	Technical output of converter failur	Dimensions L×W×H [+/- 2mm]
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step down voltage converters

DC/DC10SD	8÷28VDC	4,5÷19VDC	1A/12VDC	✓	80×43×27
DC/DC20SD			2A/12VDC	✓	100×43×27
DC/DC50SD		4,5÷24VDC	5A/12VDC	✓	140×43×45
DC/DC50SD-SEP with separation	20÷28VDC	12VDC	5A/12VDC	—	150×54×60
DC/DC50HV	28÷60VDC	12÷24VDC	5A/12VDC	✓	140×43×45



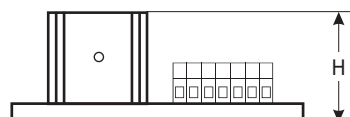
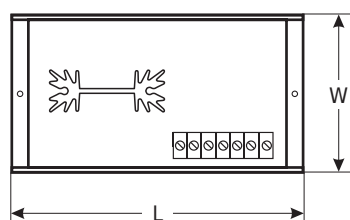
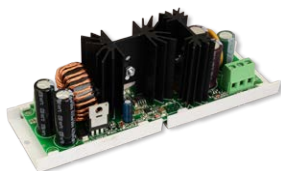
step up / step down voltage converters

DC/DC20SE	9,5÷16VDC	5÷15VDC	2A/12VDC	✓	110×43×37
DC/DC50SE-SEP with separation		12VDC	5A/12VDC	—	150×54×60



step up voltage converters

DC/DC25SU	9,5÷16VDC	18÷28VDC	2,5A/24VDC	✓	140×43×45
DC/DC52115	9,5÷28VDC	52VDC	1,15A/52VDC	✓	130×43×45
DC/DC52230			18÷28VDC	2,3A/52VDC	✓



DC/DC voltage converters - 12VDC hermetic IP67, epoxy encapsulated DCDC...H series

- power supply: 18÷40VDC
- hermetic enclosure IP67, ABS, epoxy encapsulated
- length of DC input cable: 0,3m
- length of DC output cable: 0,5m + DC plug 5.5/2.1 female
- protections:
 - OLP overload protection
 - SCP short circuit protection
 - against reverse input voltage polarity
- notes:
 - mounting: 2 Ø3,2mm holes
- warranty: 2 years from production date



Sample product:
DCDC10H



DC plug 5.5/2.1
female

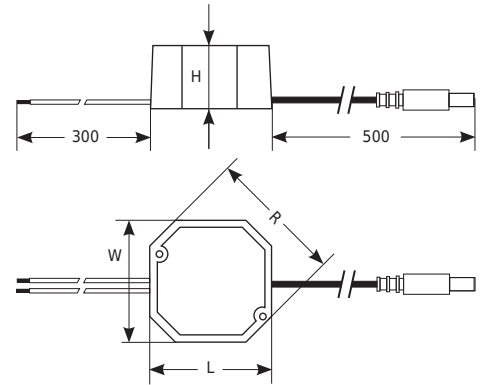


Hermetic enclosure IP67



Epoxy encapsulated

Code	Input voltage	Output voltage	Output current	Dimensions L×W×H / R [+/- 2mm]
DCDC10H	18÷40VDC	12VDC	1,0A	48×50×25 / 55
DCDC15H			1,5A	58×58×28 / 62



DC/DC voltage converters - 12VDC DC/DC series - in plastic enclosure

- power supply: 12÷30VDC
- length of DC input cable: 0,13m + screw connection / 5.5/2.1 JACK socket - male *
- length of DC output cable: 0,13m + DC plug 5.5/2.1 female
- protections:
 - against reverse input voltage polarity
- warranty: 1 year from production date

* depending on model



Sample product:
DC/DC05-J



Screw connection *



5.5/2.1 JACK socket - male *



DC plug 5.5/2.1 female

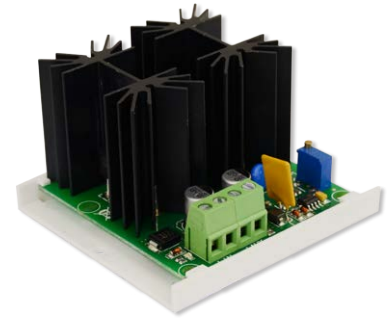
Code	Input voltage	Output voltage	Output current	Notes		Dimensions L×W×H [+/- 2mm]
				input	output	
DC/DC05	12÷30VDC	12VDC	0,5A	screw connection	DC plug 5.5/2.1 female	50×20×18
DC/DC05-J				5.5/2.1 JACK socket - male		

Voltage reducer - linear

13,8VDC → 12VDC

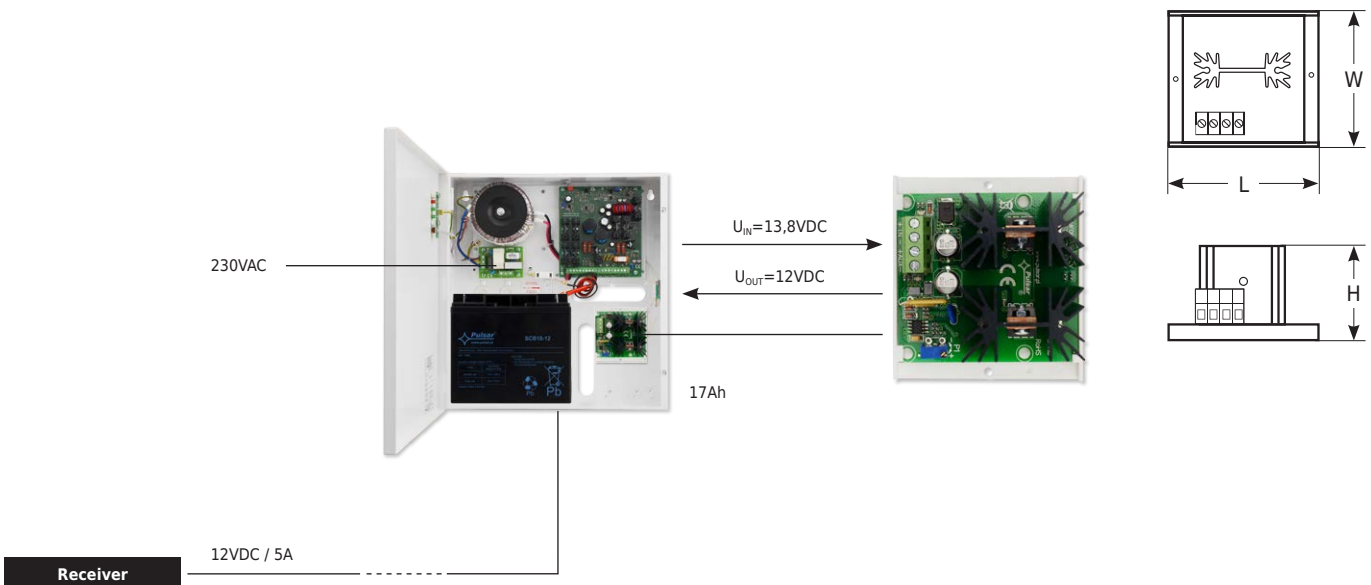
RN series

- supply voltage: 12÷14VDC
- voltage adjustment range: $11V \div U_{IN}$
- linear voltage regulator
- lossless conductivity below stabilisation threshold
- protections:
 - SCP short circuit protection
 - OLP overload protection
- installation:
 - screw, mounting pins or adhesive tape
- warranty: 2 years from production date



Power input terminals DC	Power output terminals DC	Potentiometer, adjustable voltage	Installation: - mounting screws - adhesive tape	Construction - „open frame“

Code	Input voltage	Output voltage (adjustment)	Output current	Dimensions LxWxH [+/- 2mm]
RN500	13,8VDC (12÷14VDC)	12V ($11V \div U_{IN}$)	5,0A	76x70x45



Receiver e.g.



Camera



Detector



Indicator



Electromagnetic lock



Electric strike



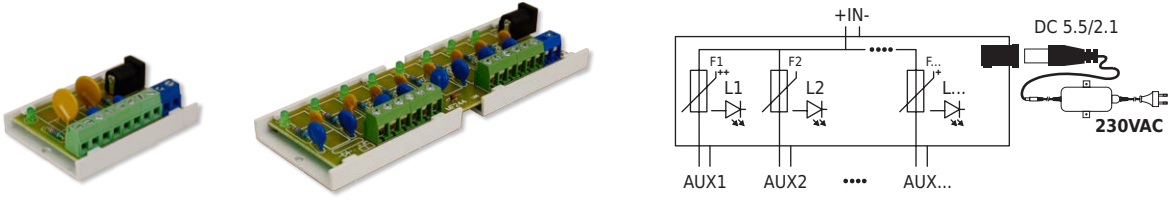
Intercom



Video intercom

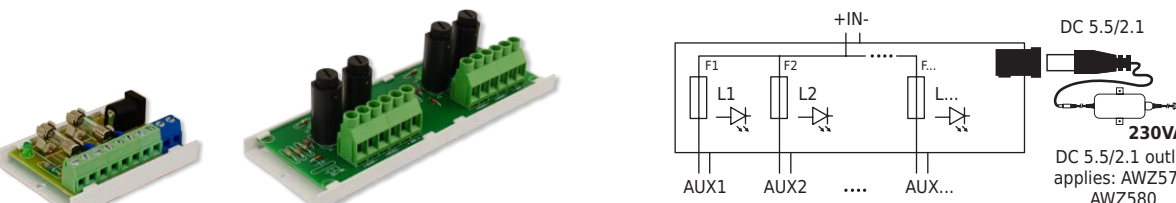
Fuse modules

Distribution - PTC



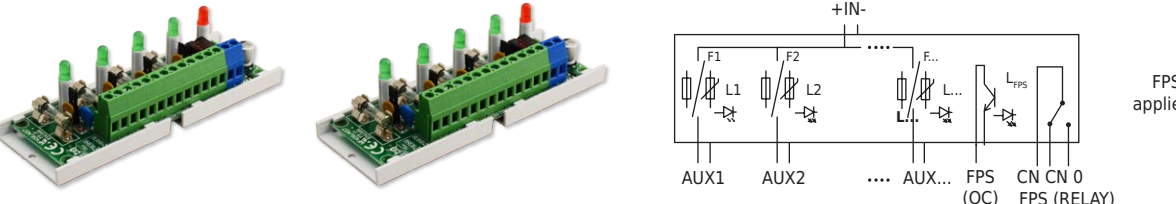
Code	Power supply	Number of inputs / outputs	Cable cross section (max)	Output protection	Fuse PTC (polymer)	DC 5.5/2.1 outlet	Dimensions LxWxH [+/- 2mm]
AWZ575	10÷30VDC	2 / 4	1mm ²	4x1,0A	✓	✓	80x43x21
AWZ577		2 / 8		8x0,3A	✓	✓	124x43x21
AWZ578				8x0,5A	✓	✓	
AWZ579				8x1,0A	✓	✓	

Distribution - glass fuse



Code	Power supply	Number of inputs / outputs	Cable cross section (max)	Output protection	Glass fuse	DC 5.5/2.1 outlet	Dimensions LxWxH [+/- 2mm]
AWZ576	10÷30VDC	2 / 4	1mm ²	4x0,5A	✓	✓	80x43x20
AWZ580		2 / 8		8x0,5A	✓	✓	124x43x20
AWZ597	10÷30VDC 10÷24VAC	1 / 2	2,5mm ²	2x2,0A	✓	—	60x43x26
AWZ589	10÷30VDC	1 / 4		4x2,0A	✓	—	80x43x27
AWZ598	10÷30VDC 10÷24VAC	2 / 8		8x1,5A	✓	—	144x43x26


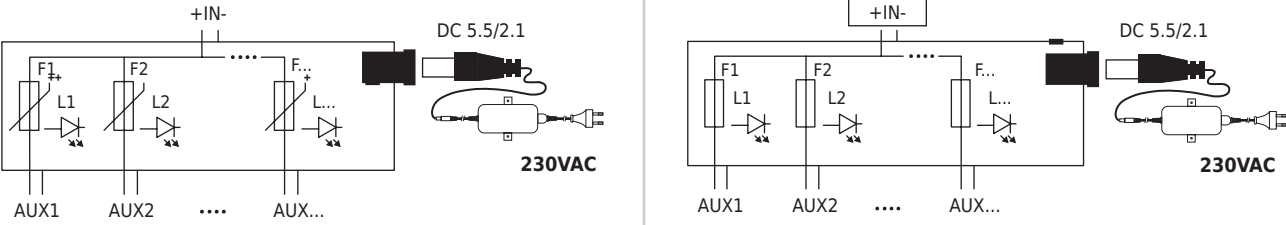
Distribution fuse modules with technical outputs of failure - glass fuse / PTC (jumper selectable fuse type)



Code	Power supply	Number of inputs / outputs	Cable cross section (max)	Output protection	Fuse	Technical outputs	Dimensions LxWxH [+/- 2mm]
					PTC (polymer) / glass fuse		
AWZ536	10÷30VDC 10÷24VAC	1 / 5	2,5mm ²	5x0,5A	✓ / ✓	OC type	150x43x30
AWZ588		1 / 4		4x0,5A	✓ / ✓	OC type, RELAY	125x43x32

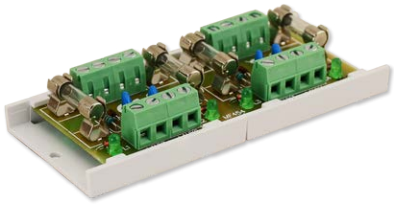
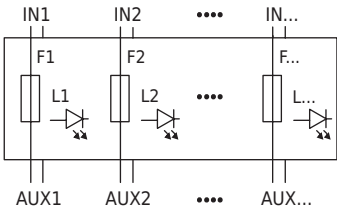
Fuse modules

Fuse modules in plastic enclosure glass fuse / PTC / without fuse

Code	Power supply	Number of inputs / outputs	Cable cross section (max)	Output protection	Fuse		DC 5.5/2.1 outlet	Dimensions W×H×D [+/- 2mm] W ₁ ×H ₁ [+/- 2mm]
					PTC polymer	glass fuse		
AWZ594	10÷30VDC	2 / 5	2mm ²	5×1,0A	✓	/ -	✓	150×94×42 126×78
AWZ592		2 / 8		8×1,0A	✓	/ -	✓	
AWZ593		2 / 5		5×1,0A	-	/ ✓	✓	
AWZ591		2 / 8		8×1,0A	-	/ ✓	✓	

Straight-through - glass fuse (galvanic separation of each output)


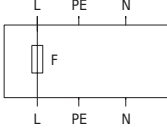
Code	Power supply	Number of inputs / outputs	Cable cross section (max)	Output protection	Glass fuse	Dimensions L×W×H [+/- 2mm]
AWZ533	10÷30VDC 10÷24VAC	4 / 4	1mm ²	2×1,5A	✓	100×43×20

Fuse modules

Relay modules


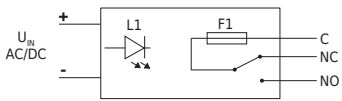
Fuse modules

straight-through, 230VAC - glass fuse


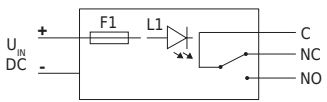
						
Code	Power supply	Number of inputs / outputs	Cable cross section (max)	Output protection	Glass fuse	Dimensions L×W×H [+/- 2mm]
AWZ618	230VAC	1 / 1	2,5mm ²	1×T 3,15A	✓	60×43×40

Relay modules


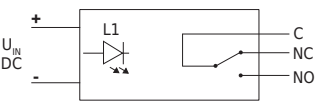
AC/DC power, fuse in C/NC/NO relay circuit

						
Code	Supply voltage	Number of relays	Maximum connection voltage	Maximum connection current	Dimensions L×W×H [+/- 2mm]	
AWZ510	10+16VDC / 10+13VAC	1	30VDC / 50VAC	1A	50×43×20	
AWZ512		2			80×43×20	
AWZ514	10+16VDC / 10+16VAC	1	30VDC / 250VAC	6A	70×43×23	
AWZ517	20+32VDC / 20+32VAC	1			75×70×30	
AWZ625	10+16VDC / 10+16VAC	2			150×70×30	
AWZ626		4				

DC power, fuse in coil circuit

					
Code	Supply voltage	Number of relays	Maximum connection voltage	Maximum connection current	Dimensions L×W×H [+/- 2mm]
AWZ511	10+14VDC	1 (2 x C/NO/NC)	30VDC / 50VAC	2A	70×43×20
AWZ513					

DC power, without fuse

					
Code	Supply voltage	Number of relays	Maximum connection voltage	Maximum connection current	Dimensions L×W×H [+/- 2mm]
AWZ529	10+14VDC	2	30VDC / 50VAC	2A	70×43×22
AWZ528		3		1A	70×43×20
AWZ520		5		2A	140×43×25
AWZ612		1		1A	40×43×20
AWZ622		1		1A	30×27×18
AWZ624	20+28VDC	2	30VDC / 50VAC	2A	70×43×22

Relay modules

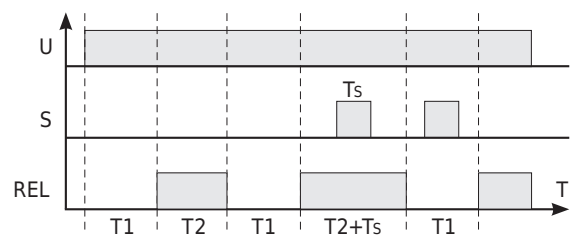
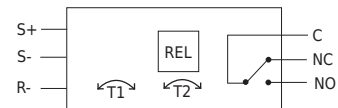
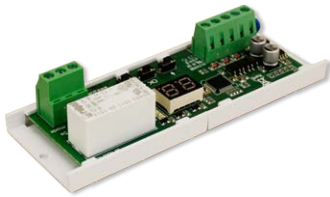
Time relay modules

DC power, without fuse - control inputs: T -, T +



Code	Supply voltage	Control inputs	Number of relays	Maximum connection voltage	Maximum connection current	Dimensions LxWxH [± 2mm]
AWZ508	10÷15VDC 21÷28VDC (jumper selectable - Z1)	T-, T+	2	30VDC / 50VAC	2A	80x43x22
AWZ610	10÷14VDC	T-, T+	1			50x43x22

Time relay modules, DC power, without fuse



Code	Supply voltage	Control inputs	Number of relays	Maximum connection voltage	Maximum connection current	Time range	Dimensions LxWxH [± 2mm]
AWZ516	10÷16VDC	S+, S-, R-	1	30VDC / 250VAC	10A	0,1s ÷ 100h (18 different time-logic functions)	120x43x22
AWZ525	10÷14VDC	S+, S-	1	30VDC / 50VAC	1A	1s ÷ 5min	60x43x23
AWZ526		S+, S-, R-					70x43x23

Transformers

10VA÷80VA

Transformers are designed to supply devices requiring galvanic isolation and U1, U2 or U3 AC voltage (i.e. alarm control panels, radio transmitters, GSM, access control panels etc.).

TRP series - IP30, ABS/PC



Code	Power	Output voltage
AWT050	20VA	16V/1,2A or 18V/1A
AWT053	20VA	12V/1,6A or 14V/1,4A
AWT150	40VA	16V/2,2A or 18V/2A
AWT500	50VA	16V/3A or 18V/2,8A or 20V/2,5A
AWT800	80VA	16V/5A or 18V/4,5A or 20V/4A
AWT824	80VA	17V/4,7A or 24V/3,3A or 30V/2,7A

TRZ series - IP43, ABS/PC, cast resin



Code	Power	Output voltage
AWT468	40VA	16V/2,2A or 18V/2A
AWT682	60VA	18V/3,3A or 20V/3,0A
AWT8161820	80VA	16V/5A or 18V/4,5A or 20V/4A
AWT8172430	80VA	17V/4,5A or 24V/3,3A or 30V/2,7A

EI series, cast resin



Code	Power	Output voltage
AWT830	30VA	16,5V/1,8A
AWT845	45VA	16,5V/2,7A

Transformers for electric strikes and intercoms



Code	Power	Output voltage
AWT027	10VA	11,5V/0,8A or 14V/0,6A

Accessories:
- DIN rail brackets



Panic alarm button

Foot-operated panic button PN

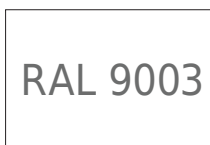
- ALARM output: C/NC/NO - 1A@30VDC / 50VAC max
- TAMPER output: C/NC/NO - 1A@30VDC / 50VAC max
- operating conditions II environmental class, -10°C÷40°C
- enclosure: metallic DC01; 0,7mm, RAL 9003, IP20
- connectors: $\Phi 0,41 \pm 1,63$ (AWG 26-14)
- warranty: 2 years from production date



Cable entry

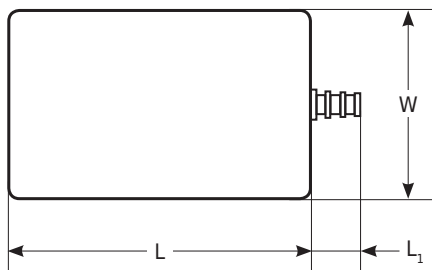
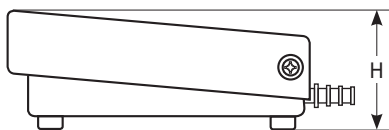


Distance



Metal enclosure colour: RAL 9003

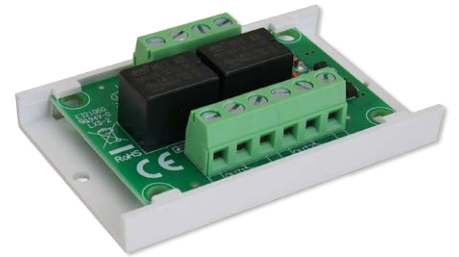
Code	ALARM output	TAMPER output	Dimensions L×W×H [+/- 2mm] L ₁ [+/- 2mm]
AWZ700	C/NC/NO	C/NC/NO	106×66×36 18



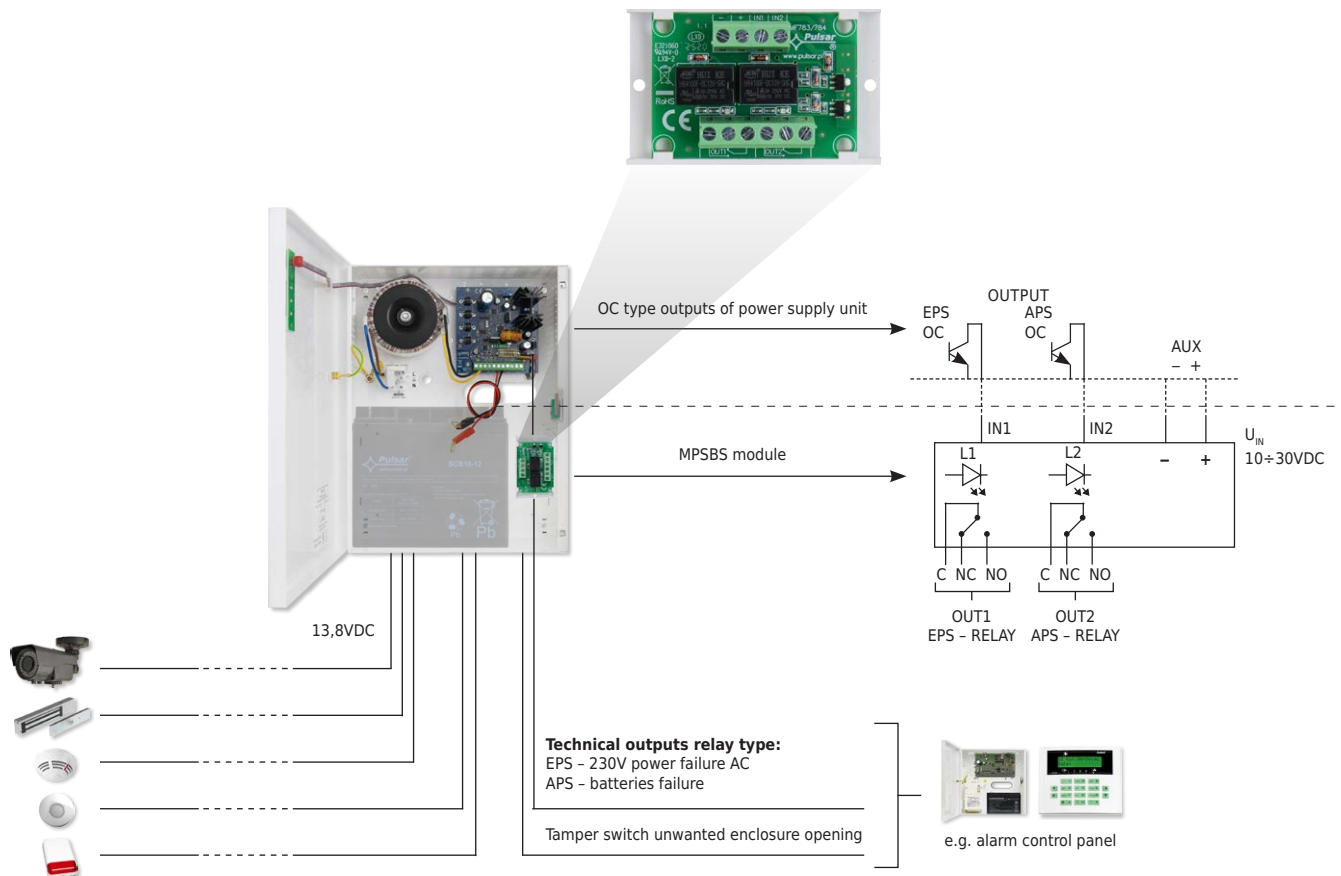
Relay module

Module of technical relay outputs

AWZ639 relay module is used for changing technical outputs (OC type) into technical outputs of relay type (C/NO/NC). Dedicated for power supplies of: AWZG2.



Code	Supply voltage	Control outputs	Technical outputs - relay type	Relays	Dimensions LxWxH [+/- 2mm]
AWZ639	10÷30VDC	IN1 IN2	OUT1 OUT2	2xREL-C/NO/NC, 1A@30VDC/50VAC	69x20x43



Enclosures for alarm control panels

fitted with transformer of TRP series

Universal

Dedicated for control panels DSC, SATEL, PARADOX, RISCO, PYRONIX, CROW...



Code	Transformer	Power supply output	Fitting battery	External dimensions of enclosure: W×H×D+D ₁ [± 2mm]	External dimensions of front panel: W ₁ ×H ₁ [± 2mm]
AWO000	TRP 20VA	16V/1,2A or 18V/1,0A	7Ah/12V	250×250×80+8	255×255
AWO009			7Ah/12V		
AWO150	TRP 40VA	16V/2,2A or 18V/2,0A	7Ah/12V	280×290×80+8	285×295
AWO220			17Ah/12V	320×305×90+8	325×310
AWO200			17Ah/12V	320×400×90+8	325×405
AWO250	TRP 50VA	16V/3,0A or 18V/2,8A or 20V/2,5A	17Ah/12V	320×400×120+8	325×405
AWO300	TRP 80VA	16V/5,0A or 18V/4,5A or 20V/4,0A	17Ah/12V		
AWO301			24Ah/12V	350×400×170+8	355×405

SATEL

Dedicated for control panels SATEL.



Code	Transformer	Power supply output	Fitting battery	External dimensions of enclosure: W×H×D+D ₁ [± 2mm]	External dimensions of front panel: W ₁ ×H ₁ [± 2mm]
AWO005	TRP 20VA	16V/1,2A or 18V/1,0A	7Ah/12V	250×250×80+8	255×255
AWO006			7Ah/12V		
AWO205	TRP 40VA	16V/2,2A or 18V/2,0A	17Ah/12V	320×305×90+8	325×310
AWO256	TRP 50VA	16V/3,0 or 18V/2,8A or 20V/2,5A	17Ah/12V	320×400×90+8	325×405

PARADOX

Dedicated for control panels PARADOX.



Code	Transformer	Power supply output	Fitting battery	External dimensions of enclosure: W×H×D+D ₁ [± 2mm]	External dimensions of front panel: W ₁ ×H ₁ [± 2mm]
AWO003	TRP 20VA	16V/1,2A or 18V/1,0A	7Ah/12V	250×250×80+8	255×255
AWO008			7Ah/12V		
AWO152	TRP 40VA	16V/2,2A or 18V/2,0A	7Ah/12V	280×290×80+8	285×295
AWO232			17Ah/12V	320×305×90+8	325×310
AWO214			17Ah/12V	320×400×90+8	325×405

RISCO

Dedicated for control panels RISCO.



Code	Transformer	Power supply output	Fitting battery	External dimensions of enclosure: W×H×D+D ₁ [± 2mm]	External dimensions of front panel: W ₁ ×H ₁ [± 2mm]
AWO203 *	TRP 40VA	16V/2,2A or 18V/2,0A	17Ah/12V	350×400×90+8	355×405

* available on demand

DSC

Dedicated for control panels DSC.



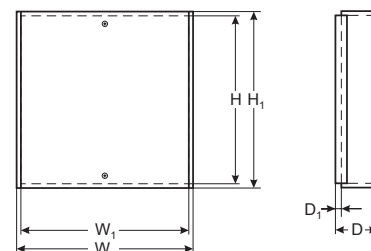
Code	Transformer	Power supply output	Fitting battery	External dimensions of enclosure: W×H×D+D ₁ [± 2mm]	External dimensions of front panel: W ₁ ×H ₁ [± 2mm]
AWO171	TRP 40VA	16V/2,2A or 18V/2,0A	7Ah/12V	280×295×78+6	285×300

Enclosures for alarm control panels construction compliant with EN50131, GRADE 3 version

fitted with transformer of TRP / TRZ series *

SATEL

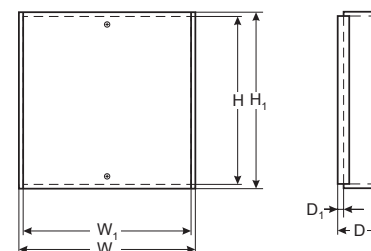
Dedicated for control panels SATEL.



Code	Transformer	Power supply output	Fitting batteries	External dimensions of enclosure: W×H×D (D ₁) [± 2mm]	External dimensions of front panel: W ₁ ×H ₁ [± 2mm]
AWO213	TRZ 40VA	16V/2,2A or 18V/2,0A	17Ah/12V	330×305×110 (15)	325×310
AWO257	TRZ 50VA	16V/3,0A or 18V/2,8A or 20V/2,5A	17Ah/12V	340×400×110 (15)	335×405
AWO270	TRZ 75VA	20V/3,75A	17Ah/12V		
AWO306	TRP 80VA	16V/5,0A or 18V/4,5A or 20V/4,0A	28Ah/12V	460×550×175 (20)	455×555

PARADOX

Dedicated for control panels PARADOX.



Code	Transformer	Power supply output	Fitting batteries	External dimensions of enclosure: W×H×D (D ₁) [± 2mm]	External dimensions of front panel: W ₁ ×H ₁ [± 2mm]
AWO268	TRP 40VA	16V/2,2A or 18V/2,0A	17Ah/12V	340×400×130 (15)	335×405
AWO278	TRP 80VA	16V/5,0A or 18V/4,5A or 20V/4,0A	17Ah/12V		

* depending on model

Enclosures for alarm control panels

Universal - two-level version

fitted with transformer of TRP series

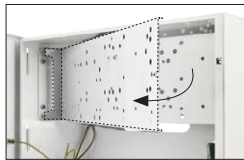
Dedicated for control panels

DSC, SATEL, PARADOX, RISCO, PYRONIX, CROW...

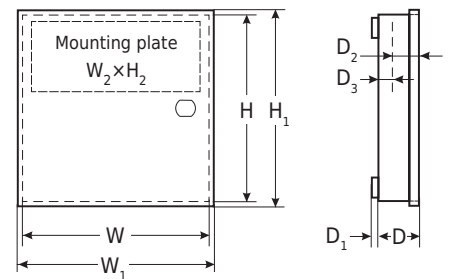
Communication modules

GORKE - ATG; **ROPAM** - BASIC, MULTI GSM; **SATEL** - ETHM, GSM LT1, LT2, GPRS-T1/T2/T4

Two-level security metal enclosures for alarm control panels are designed for mounting motherboard of alarm control panel and input/output security and expansion modules, etc. First level is dedicated for installation of control panels, while second one for communication modules. In addition, installation of expansion modules is also possible. Enclosures are fitted with transformer of TRP series in PC / ABS plastic enclosure - IP30.



2nd level - hinged mounting plate



Code	Transformer	Power supply output	Fitting battery	External dimensions of enclosure: $W \times H \times D + D_1$ [± 2 mm]	External dimensions of front panel: $W_1 \times H_1$ [± 2 mm]	Mounting plate dimensions: $W_2 \times H_2$ [± 2 mm]	Working depth: D_2 / D_3 [± 2 mm]
AWO200K	TRP 50VA	16V/3,0A or 18V/2,8A or 20V/2,5A	17Ah/12V	350×435×140+8	355×440	310×135	62/75

Enclosures for alarm control panels

RISCO

with power supply LRS

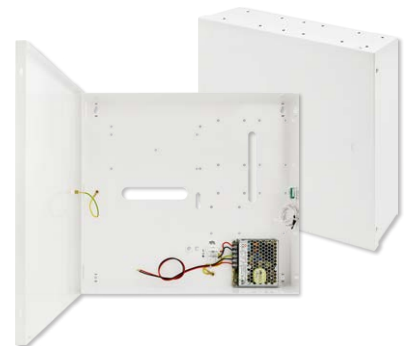
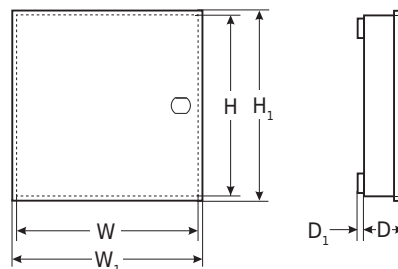
Dedicated for control panels

RISCO

Metal enclosure is designed as component of RISCO intruder alarm security systems.

It is intended for installation:

- control panels
- additional modules



Code	Power supply	Power supply output	Fitting battery	External dimensions of enclosure: $W \times H \times D + D_1$ [± 2 mm]	External dimensions of front panel: $W_1 \times H_1$ [± 2 mm]
AWO317	LRS-75-15	14,4VDC/5A	17Ah/12V	430×398×91+8	436×403

Empty enclosures for alarm control panels

without transformer

Universal

Dedicated for control panels: DSC, SATEL, PARADOX, RISCO, PYRONIX, CROW...



Code	Fitting batteries	External dimensions of enclosure: $W \times H \times D + D_1$ [+/- 2mm]	External dimensions of front panel: $W_1 \times H_1$ [+/- 2mm]
AWO000PU	7Ah/12V	250×250×80+8	255×255
AWO150PU	7Ah/12V	280×290×80+8	285×295
AWO220PU	17Ah/12V	320×305×90+8	325×310
AWO200PU	17Ah/12V	320×400×90+8	325×405
AWO250PU	17Ah/12V	320×400×120+8	325×405
AWO301PU	24Ah/12V	350×400×170+8	355×405

SATEL

Dedicated for control panels: SATEL.



Code	Fitting batteries	External dimensions of enclosure: $W \times H \times D + D_1$ [+/- 2mm]	External dimensions of front panel: $W_1 \times H_1$ [+/- 2mm]
AWO005PU	7Ah/12V	250×250×80+8	255×255
AWO256PU	17Ah/12V	320×400×90+8	325×405

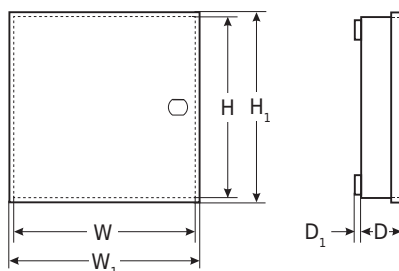
PARADOX

Dedicated for control panels: PARADOX.



Code	Fitting batteries	External dimensions of enclosure: $W \times H \times D + D_1$ [+/- 2mm]	External dimensions of front panel: $W_1 \times H_1$ [+/- 2mm]
AWO152PU *	7Ah/12V	280×290×80+8	285×295

* available on demand



Empty enclosure for alarm control panels SATEL - GRADE 3 version

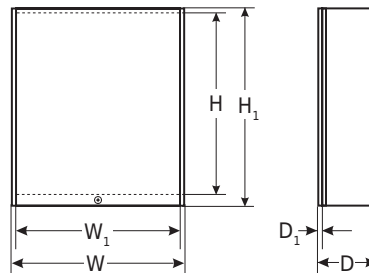
without transformer

Dedicated for control panels SATEL.

Security metal enclosure for alarm control panels is designed for mounting motherboard of alarm control panel and input/output expansion modules, security modules, relays, etc. Enclosure in empty version is without transformer - this enclosure has holes for mounting transformer of TRP, TRZ series. Enclosure compliant with EN50131 (GRADE 3) is used in alarm systems in accordance with EN50131.



**Compliant
with EN50131
GRADE 3**



Accessories:



AWO269S

Code	Fitting batteries	External dimensions of enclosure: W×H×D (D ₁) [+/- 2mm]	External dimensions of front panel: W ₁ ×H ₁ [+/- 2mm]
AWO269PU	17Ah/12V	325×400×100 (15)	323×405

Empty, flush-mounted enclosures for alarm control panels Universal

without transformer

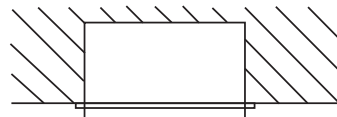
Dedicated for control panels

DSC, SATEL, PARADOX, RISCO, PYRONIX, CROW...

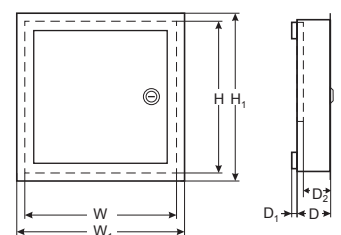
Security metal enclosures for alarm control panels are designed for mounting motherboard of alarm control panel and input/output expansion modules, security modules, relays, etc. Designed for flush mounting. They are fitted with adjustable flange and removable doors locked with key for esthetic installation. Enclosures in empty version are without transformer - these enclosures have holes for mounting transformer of TRZ series.



Sample product:
AWO510PU



Code	Fitting batteries	External dimensions of enclosure: W×H×D+D ₁ [+/- 2mm]	External dimensions of flange: W ₁ ×H ₁ [+/- 2mm]	Working depth: D ₂ [+/- 2mm]
AWO505PU	7Ah/12V	280×290×80	335×335	80
AWO500PU	17Ah/12V	310×305×100+8	345×340	
AWO510PU	17Ah/12V	350×400×100+8	385×430	
AWO520PU	28Ah/12V	350×400×182+8	380×450	150



Enclosures for expanders

Universal

Dedicated for expanders DSC, SATEL, PARADOX, RISCO...



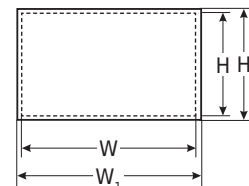
Code	Destination	External dimensions of enclosure: $W \times H \times D + D_1$ [± 2 mm]	External dimensions of front panel: $W_1 \times H_1$ [± 2 mm]
AWO452	DSC, SATEL, PARADOX, RISCO	218×150×50+8	222×155
AWO453		262×172×49+8	267×176

SATEL

Dedicated for expanders SATEL.



Code	Destination	Fitting battery	External dimensions of enclosure: $W \times H \times D + D_1$ [± 2 mm]	External dimensions of front panel: $W_1 \times H_1$ [± 2 mm]
AWO224	SATEL	17Ah/12V	320×305×100+8	325×310

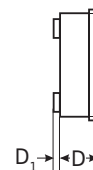


BOSCH

Dedicated for expanders BOSCH.



Code	Fitting battery	External dimensions of enclosure: $W \times H \times D + D_1$ [± 2 mm]	External dimensions of front panel: $W_1 \times H_1$ [± 2 mm]
AWO455	BOSCH	218×150×50+8	222×155



Enclosures for expanders

GRADE 3 version

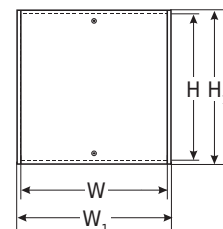
construction compliant with EN50131

Universal

Dedicated for expanders DSC, SATEL, PARADOX, RISCO, ZKTeko....



Code	Destination	External dimensions of enclosure: $W \times H \times D (D_1)$ [± 2 mm]	External dimensions of front panel: $W_1 \times H_1$ [± 2 mm]
AWO454	DSC, SATEL, PARADOX, RISCO, ZKTeko	297×203×67 (16)	292×207

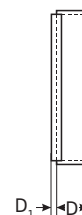


SATEL

Dedicated for expanders SATEL.



Code	Destination	Fitting battery	External dimensions of enclosure: $W \times H \times D (D_1)$ [± 2 mm]	External dimensions of front panel: $W_1 \times H_1$ [± 2 mm]
AWO229	SATEL	17Ah/12V	330×305×120 (15)	325×310



Enclosures for keypads

Surface-mounted

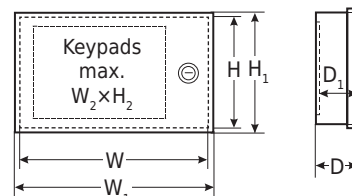
Dedicated for keypads of control panels

DSC, SATEL, PARADOX...

Security metal enclosures for keypads are designed for installation keypads (drivers) for Intrusion Detection Systems, Access Control systems, etc. Their design provides protection against unauthorized access to keypads (drivers) in public utility buildings.



Sample product:
AWO353



Code	Destination	LED / LCD	Control window	External dimensions of enclosure: W×H×D [+/- 2mm]	External dimensions of front panel: W ₁ ×H ₁ [+/- 2mm]	Keypad mounting dimensions: W ₂ ×H ₂ ×D ₁ [+/- 2mm]
AWO350	DSC, FBII, SCANTRONIC, ROKONET, PARADOX, NAPCO, SUMMIT	LED	—	192×132×42	198×137	135×125×32
AWO352	SATEL	LED	—	211×110×42	218×115	155×105×32
AWO359	SATEL, PARADOX, PYRONIX	LED	—	140×135×42	147×140	85×130×32
AWO363	INTERLOGIX, SINTONY, CADDX, NETWORKX, GALAXY, PARADOX	LED	—	169×190×50	177×195	110×185×41
AWO351	DSC, FBII, SCANTRONIC, ROKONET, PARADOX, NAPCO, SUMMIT, SATEL, CADDX NETWORKX	LCD	—	235×135×42	242×140	185×130×32
AWO353	SATEL, PARADOX, GALAXY, VISONIC, PYRONIX, CADDX NETWORKX, ROKONET, ELKRON, ADEMCO, PIMA, FBII	LCD	—	215×150×50	223×155	160×145×42
AWO360 *	SATEL, PARADOX, GALAXY, VISONIC, PYRONIX, CADDX NETWORKX, ROKONET, ELKRON, ADEMCO, PIMA, FBII	LCD	✓	215×149×50	223×158	

* available on demand

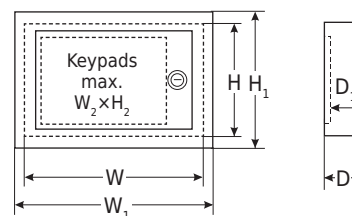
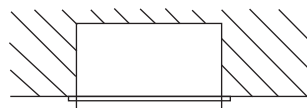
Enclosure for keypads

Flush-mounted

Dedicated for keypads of control panels

DSC, SATEL, PARADOX...

Security metal enclosure for keypads is designed for installation keypads (drivers) for Intrusion Detection Systems, Access Control systems, etc. Its design provides protection against unauthorized access to keypads (drivers) in public utility buildings.



Code	Destination	LED / LCD	External dimensions of enclosure: W×H×D [+/- 2mm]	External dimensions of flange: W ₁ ×H ₁ [+/- 2mm]	Keypad mounting dimensions: W ₂ ×H ₂ ×D ₁ [+/- 2mm]
AWO356	DSC, FBII, SCANTRONIC, ROKONET, PARADOX, NAPCO, SATEL, CADDX NETWORKX, GALAXY, VISONIC, PYRONIX, ELKRON, ADEMCO, PIMA, SUMMIT	LED	250×162×61	276×193	185×142×52

Enclosures for GSM transmitters

Dedicated for receivers

EBS, PRONAL

Metal security enclosures for receivers are designed as supplementary elements for Intrusion Detection Systems, Access Control systems, etc. Dedicated for GSM transmitter mounting systems (event notification). Enclosures are fitted with transformer of TRP series.



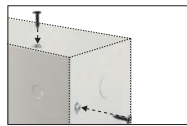
Pre-embossed for antenna



Transformer of TRP series



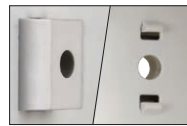
Tamper switch indicating enclosure opening - 1 piece



Screw closing - 4 pieces



Embossing for a lock (MR008 / MR027)

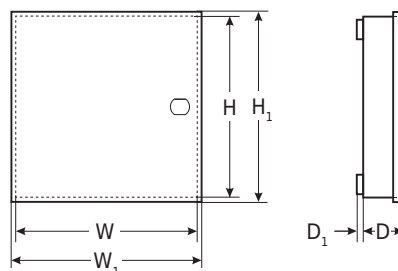


Spacers (plastic) - 8mm



Removable hinges

Code	Destination	Transformer	Power supply output	Fitting battery	External dimensions of enclosure: W×H×D+D ₁ [+/- 2mm]	External dimensions of front panel: W ₁ ×H ₁ [+/- 2mm]
AW0040	EBS / PRONAL	TRP 20VA	14V/1,4A or 18V/1,0A	7Ah / 12V	250×250×80+8	255×255



Enclosures for Access Control Systems BOSCH

Dedicated for Access Control Systems BOSCH

Enclosures are designed for mounting (depending on configuration):

- AMC (Access Modular Controller) of access control system on TH/TS35 (35mm) DIN rail
- power supply of PCB on TH/TS35 (35mm) DIN rail
- additional modules or other devices adapted for mounting on TH/TS35 (35mm) DIN rail
- battery 2x7Ah/12V

Industrial use

electrolytic galvanized steel sheet DC01, polyester paint - RAL 7035 (grey, structural)

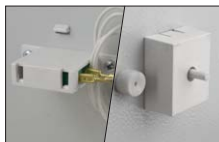


AWO513

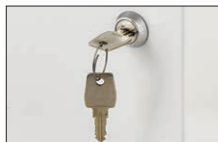
AWO514



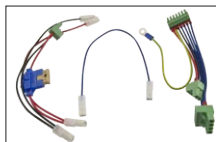
Tamper switch indicating enclosure opening - 1 piece



Tamper switch - enclosure detachment, in metal cover - 1 piece



Lock



Set of cables included

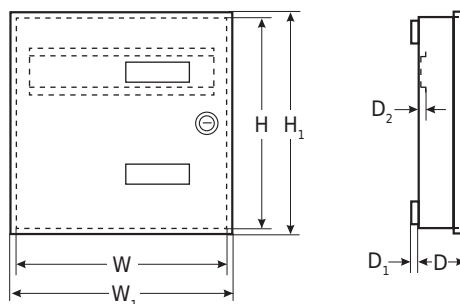


Control window



Screwed DIN rail distance 18mm

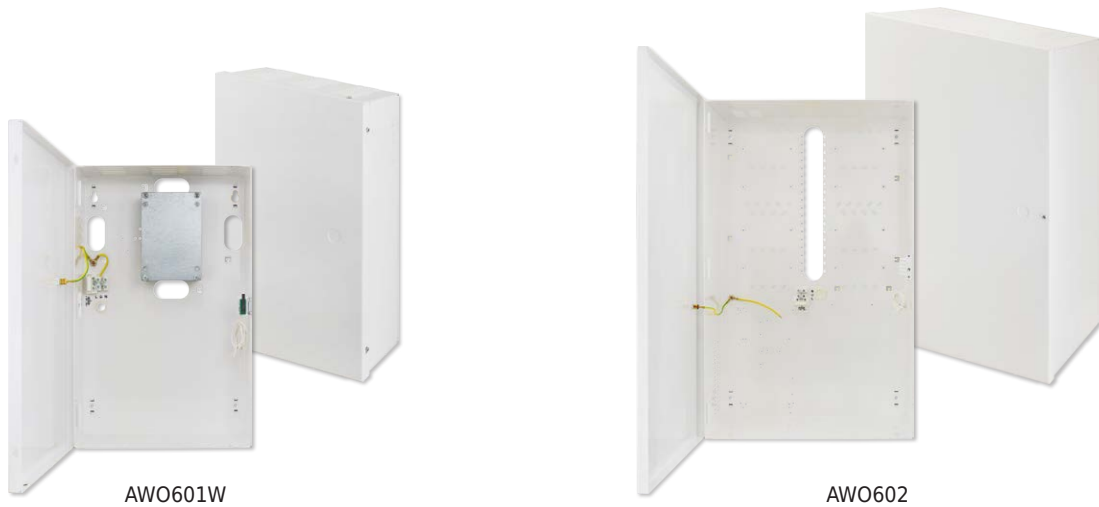
Code	Number of DIN rails / length / number of „S“ fields / D ₂	Fitting battery	Control window	External dimensions of enclosure: W×H×D+D ₁ [± 2mm]	External dimensions of front panel: W ₁ ×H ₁ [± 2mm]
AWO513	1 / 380mm / 21 / 18mm	2x7Ah / 12V	1	405×320×90+14	412×323
AWO514	2 / 380mm / 21 / 18mm		2	405×520×90+14	412×523



Enclosures for Access Control Systems Nedap

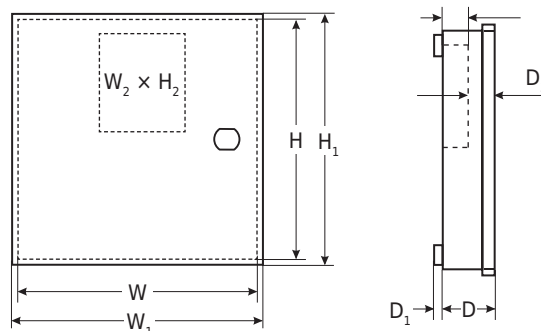
Dedicated for Access Control Systems Nedap

- Enclosures are designed for mounting (depending on configuration):
 - 9981624 AP7803m – Access Control Controller (AEpu)
 - 9981632 AP7003m – Access control expansion module (AEpack)
 - 9984135 AP7031m – I / O module (AEpack) power supply of PCB on TH/TS35 (35mm) DIN rail
- power supplies of Pulsar / Mean Well
- batteries 1x17Ah / 2x17Ah (depending on model)



* depending on model

Code	Fitting batteries	Mounting plate dimensions: $W_2 \times H_2$ [+/- 2mm]	Enclosure dimensions: $W \times H \times D + D_1$ [+/- 2mm] $W_1 \times H_1$ [+/- 2mm]
AWO601W	2x7Ah, 1x17 / 12V	82x121	230x372x80+8 235x375
AWO602	2x17Ah / 12V	—	340x550x170+14 345x555



Enclosure for VAS (Voice Alarm Systems) Enclosure for loudspeaker line supervision system by BOSCH

Dedicated for VAS

BOSCH: LBB 4442/00, LBB 4441/00, LBB 4443/00, PVA-1WEOL, PLN 1EOL, LBC 1256/00

Enclosure is designed for mounting loudspeaker line supervision systems by BOSCH used in Voice Alarm Systems. Design of enclosure allows mounting Praesideo, Plena, Praesensa and Paviro systems by BOSCH.

Enclosure is fitted with four cable glands allowing connecting loudspeaker wires with maximum diameter of 10mm.



Closing - screwed - 2 pieces

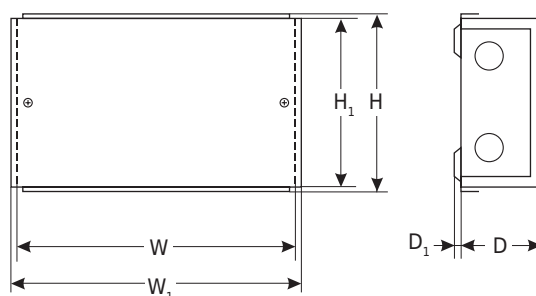


Rubber cable bushings



Mounting sleeves

Code	Destination	External dimensions of enclosure: $W \times H \times D + D_1$ [+/- 2mm]	External dimensions of front panel: $W_1 \times H_1$ [+/- 2mm]
AW0506	BOSCH: Praesideo, Paviro, Plena, Praesensa	150x112x31+3	153x108



Metal enclosures for batteries

Surface mounted, DIN rail mounted

Metal security enclosures for batteries are designed as supplementary elements for Intrusion Detection Systems, Access Control systems, etc. Dedicated for surface mounting of maintenance-free lead-acid batteries of following capacities: 7Ah / 17Ah / 28Ah / 44Ah / 65Ah. In addition, when using PKAZ107, it is possible to mount enclosure on DIN rail (TH35) - only AWO401.



Sample product:
AWO401



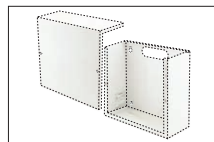
Tamper switch indicating enclosure opening - 1 piece



Closing - screwed - 2 pieces



Spacers (plastic) - 8mm



Removable front cover "KO-3"

Applies to AWO401 enclosure



Holes for PKAZ107



PKAZ107

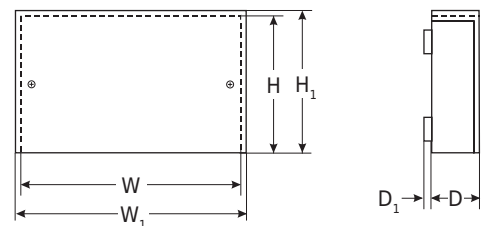


Code	Fitting batteries					Surface mounted	DIN rail mounted (Required set: PKAZ107)	External dimensions of enclosure: W×H×D+D ₁ [± 2mm]	External dimensions of front panel: W ₁ ×H ₁ [± 2mm]
	7Ah	17Ah	28Ah	44Ah	65Ah				
AWO401	1×	1×	—	—	—	✓	✓	205×191×82+8	210×192
AWO402	2×	2×	1×	1×	—	✓	—	230×200×175+8	234×203
AWO403	4×	4×	2×	1×	1×	✓	—	390×200×175+8	395×201

Accessories:



PKAZ107



Enclosures for power supply units

Pulsar: PS series

Mean Well: LRS, RS, RSP series

Enclosures are designed for power supply units of PS (Pulsar), LRS, RS and RSP series (Mean Well). They protect cables and power supply unit against direct access of unauthorized persons, while providing good ventilation.



Sample product:
AWO384



Closing - screwed - 1 piece



Removable hinges

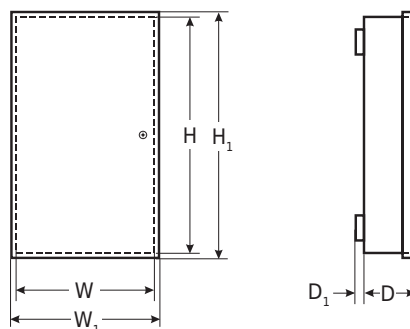


Spacers (plastic) - 8mm



Set includes screws for mounting power supply unit

Code	Space for power supply unit		External dimensions of enclosure: W×H×D+D ₁ [+/- 2mm]	External dimensions of front panel: W ₁ ×H ₁ [+/- 2mm]
	Pulsar	Mean Well		
AWO384	PS-12V2A, PS-12V3A, PS-12V5A, PS-48V1A	LRS-35-xx, LRS-50-xx, LRS-75-xx, LRS-100-xx, LRS-150-xx RS-15-xx, RS-25-xx, RS-35-xx, RS-50-xx, RS-75-xx, RS100-xx	148×204×51+8	153×208
AWO385	PS-12V2A, PS-12V3A, PS-12V5A, PS-48V1A, PS-12V7A, PS-12V10A, PS-48V3A, PS-12V15A	LRS-35-xx, LRS-50-xx, LRS-75-xx, LRS-100-xx, LRS-150-xx RS-15-xx, RS-25-xx, RS-35-xx, RS-50-xx, RS-75-xx, RS100-xx, RS150-xx RSP-100-xx, RSP-150-xx, RSP-200-xx, RSP-320-xx, RSP-500-xx	175×277×61+8	180×281



Enclosures for CCTV recorders horizontal

Enclosure construction is compliant with requirements of General Data Protection Regulation (GDPR), as personal data must be protected and stored securely.

Enclosures protect recorder against unauthorized access or theft. They are made of 1mm thickness steel, equipped with two locks (various code); two keys for each lock and tamper switch indicating enclosure opening. Due to horizontal installation and low depth, they are ideal for places where enclosures of large dimensions, such as cabinets type RACK 19", cannot be installed. After opening enclosures, easy access to buttons on front panel of recorder is provided. Wiring in rear side of recorder can also be easily accessed by simply remove upper part of enclosure. To mount enclosures under tabletop use appropriate brackets (available as accessory).



Sample product:
AWO447



Possibility to install ARAW45 fan



Mounting under tabletop



Closing lock, type 802 - various code - 2 pieces



Tamper switch indicating enclosure opening - 1 piece



Legs length - 14mm



Removable hinges



Space for fan



Removable front cover "KO-5"

Code	Bracket	Possibility of mounting ARAW45	External dimensions of enclosure: W×H×H ₃ ×D [+/- 2mm]	External dimensions of front panel: W ₁ ×H ₁ [+/- 2mm]	Dimensions of recorder space: W ₂ ×H ₂ ×D ₂ [+/- 2mm]
AWO445	AWO445BR	✓	400×100+14×305	405×110	355×90×235
AWO447		✓	400×100+14×432		355×90×360
AWO483	AWO483BR	✓	500×100+14×405	505×110	455×90×335
AWO471	AWO471BR	✓	550×125+14×575	555×135	505×115×505

Accessories:

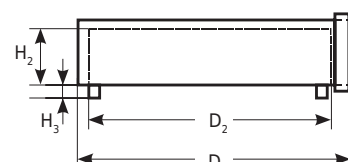
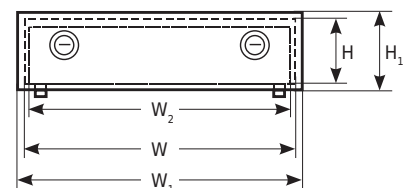


ARAW45

Fan with temperature sensor 45°C



AWO445BR – Bracket DVR/SMALL
AWO483BR – Bracket DVR/MEDIUM
AWO471BR – Bracket DVR/BIG



Enclosures for CCTV recorders vertical

Enclosure construction is compliant with requirements of General Data Protection Regulation (GDPR), as personal data must be protected and stored securely.

Enclosures protect recorder against unauthorized access or theft. They are made of 1mm thickness steel. Equipped with two locks (various code); two keys for each lock and tamper switch indicating enclosure opening and unwanted removal enclosure from wall.

Due to vertical installation and low depth, they are ideal for places where deeper enclosures or cabinets RACK 19" type cannot be installed. After opening enclosure, front cover are held in horizontal position, providing easy access to buttons on front panel of recorder.



Sample product:
AWO529 / AWO529W



Enclosure is fitted with straps for mounting recorder



Possibility to install ARAW45 fan



Closing lock, type 802 - various code - 2 pieces



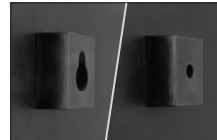
Tamper switch indicating enclosure opening - 1 piece



Tamper switch indicating unwanted removal of enclosure from wall - 1 piece



Hinges



Spacers (plastic) - 14mm



Opening limitation

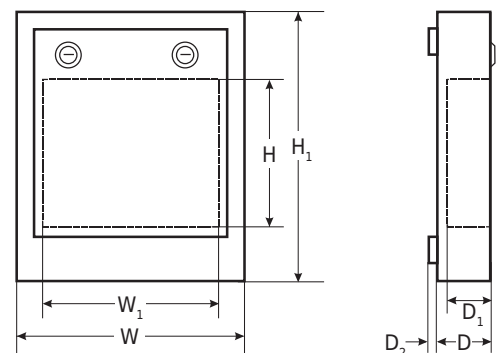
Code	Colour	Possibility of mounting ARAW45	External dimensions of enclosure: W×H×D+D ₂ [+/- 2mm]	Dimensions of recorder space: W ₁ ×H ₁ ×D ₁ [+/- 2mm]
AWO528	RAL 9005 (black matt)	—	320×430×82+14	260×250×55
AWO528W	RAL 9003 (white)	—		
AWO529	RAL 9005 (black matt)	—	435×500×121+14	375×335×95
AWO529W	RAL 9003 (white)	—		
AWO530	RAL 9005 (black matt)	✓	535×650×121+14	470×485×95
AWO530W	RAL 9003 (white)	✓		

Accessories:



ARAW45

Fan with temperature sensor 45°C



Enclosures for CCTV recorders

Vertical - with space for monitor

Enclosures construction is compliant with requirements of General Data Protection Regulation (GDPR), as personal data must be protected and stored securely.

Enclosures protects recorder/monitor/switch against unauthorized access or theft. Enclosure is made of steel with thickness of 1,2mm.

Possibility of install inside:

- recorder
- desktop type switches
- RACK 19" switches
- RACK 19" patch panel
- monitor (max 22") - applies to AW0531W

Warranty: 2 years from production date



Sample product:
AW0531W



Closing lock, type 802 - various code - 2 pieces *



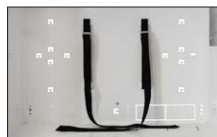
Tamper switch indicating enclosure opening



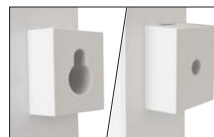
Profile RACK 19" - 3U / 4U - horizontal *



Hinged mounting plate (monitor - max 22") *



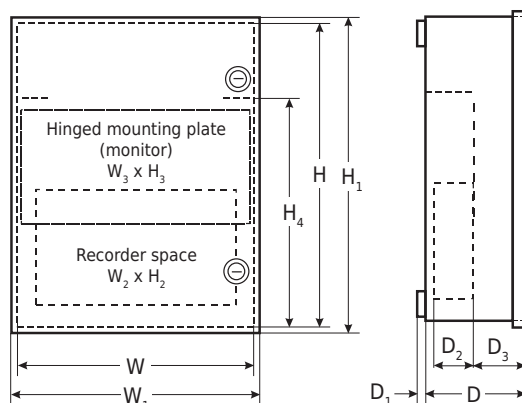
Enclosure is fitted with straps for mounting recorder *



Spacers (plastic) - 14mm

* depending on model

Code	Fitting batteries	Outlet 230VAC	Locking with keys (GDPR)	Place for a monitor (max 22")	Possibility of mounting ARAW45	RACK 19" holder (horizontal)	External dimensions of enclosure: $W \times H \times D + D_1$ [+/- 2mm]	Dimensions of recorder space: $W_2 \times H_2 \times D_2$ [+/- 2mm]	Straps for mounting recorder
AW0531W	4x7Ah	—	✓	✓	✓	4U	589x650x261+14	480x400x180	✓
AW0532W	4x7Ah / 2x17Ah	2 pieces	— (assembly required 2xMR008)	—	—	3U	535x540x165+14	530x380x155	— (ZPR kit required)



Accessories:



ARAW45
Fan with temperature sensor 45°C



ML572
Extension cord with switch and grounding 4 sockets



RAPDS
Universal RACK adapter for desktop switches



ZPR
Set of two straps for mounting recorder



MR008
Lock, type 802 - various code

Enclosures with DIN rails

Surface-mounted

Enclosure can be used as element integrating electrical installations, automation systems, CCTV, Access Control Systems (ACS), Intrusion Detection Systems (IDS), etc. Dedicated for devices mounted on DIN rail (TH35mm).

Industrial use

steel DC01, polyester paint - RAL 7035 (grey, structural)



Sample product:
AWO613



Tamper switch unwanted enclosure opening - 1 piece



Closing - screwed



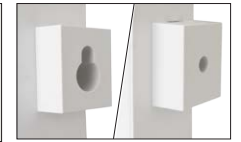
Screwed DIN rail



Plastic spacers



Pre-embossed for lock (MR008, MR027)



Spacers (plastic) - 14mm

Code	Number of DIN rails / length / number of „S” fields	Fitting batteries	Destination	External dimensions of enclosure: W×H×D+D ₁ [± 2mm]	External dimensions of front panel: W ₁ ×H ₁ [± 2mm]
AWO611	1 / 320mm / 18	2×17Ah/12V	Standard + Mean Well	375×205×155+14	380×210
AWO612	2 / 320mm / 18	2×17Ah/12V	Standard + Mean Well	375×410×155+14	380×415
AWO613	3 / 320mm / 18	2×17Ah/12V	Standard + Mean Well	375×585×155+14	380×590
AWO621	1 / 320mm / 18	1×17Ah/12V	Standard + Mean Well	375×205×100+14	380×210
AWO622	2 / 320mm / 18	2×17Ah/12V	Standard + Mean Well	375×410×100+14	380×415

Accessories:



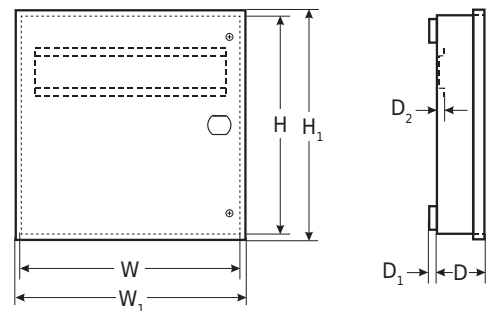
PKAZ169

Set for enclosures with DIN rails



PKAZ067

Tamper switch detachment from surface 14mm with wires



Teletechnical enclosures

Residential - surface-mounted / flush mounted - TOM

Residential teletechnical enclosures allow integrate elements of computer network, telephone network, television network (TV, SAT), fiber-optic network and other telecommunication and electrical installations in public buildings and collective residential buildings.

Industrial use

electrolytically galvanized steel DC01, polyester paint RAL 9003 (white)



Sample product:
AWO805



Sample product:
AWO802



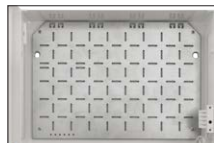
Tamper switch unwanted enclosure opening - 1 piece



Closing - screwed



Mounting shelf



Mounting plate



Enclosure ventilation



Applies to: AWO805

Spacers (plastic) - 8mm

Code	Possibility of installing					External dimensions of enclosure: W×H×D+D ₁ [+/- 2mm]
	keystone connectors (eg. RJ45, BNC)	dual „F” sockets (F-F connector)	simplex fiber optic adapter - SC	duplex fiber optic adapter - APC	equipment with standard of 45×45mm	
surface-mounted						
AWO805	12	12	2	1	1	295×345×90+8
flush mounted						
AWO802	12	12	2	1	1	295×345×90

Accessories:



GF-GF



GF-GF-K



RJ45/5U-K



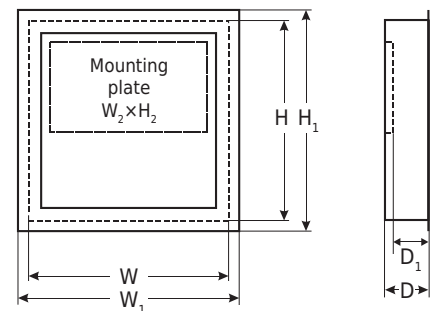
SC/APC-1SM



SC/APC-2SM



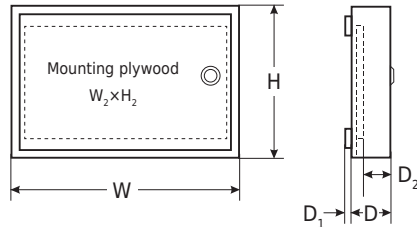
PKAZ040



Teletechnical enclosures

Universal with plywood mounting - TUN

Enclosures can be used as element integrating TV/SAT installations, (multiswitch, amplifier, splitters and taps), CCTV, Access Control Systems (ACS), Intrusion Detection Systems (IDS), automation etc.



Sample product:
AWO654



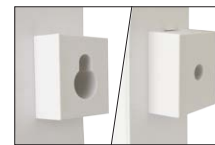
Lock MR027
same code



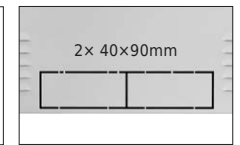
Mounting plate
waterproof plywood - 6mm



Removable back mounting plate



Spacers (plastic) - 14mm



Knock-outs Top/Bottom
2x 40x90mm

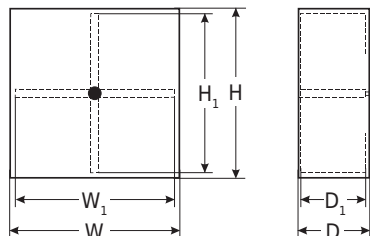
Code	Pre-embossed, Top/Bottom	External dimensions of enclosure: $W \times H \times D + D_1$ [+/- 2mm]	Assembly plywood dimensions: $W_2 \times H_2$ [+/- 2mm]	Working depth: D_2 [+/- 2mm]
AWO654	2 pcs. - 40x90mm	485x365x145+14	470x260	120
AWO656		645x485x185+14	630x380	160

Enclosures with cable frame

Enclosure is applied in ICT and telecommunication sectors. It is designed to store excessive fiber optic cable. Enclosure is compliant with requirements of ZN96/TPSA-009 standard. It consists of two parts - cover and frame.

Cross-shaped frame allows storing excessive cable while maintaining safe bending radius. Possibility of coiling of up to 120 meters of fiber optic cable, depending on its diameter.

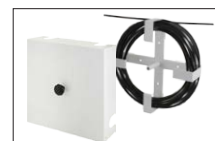
Cover protects cable against mechanical damage. Cover is mounted with single screw.



Wall mounting - 4 screws



120 meter spare cable



Metal enclosure
(Cable protection)



Cable output



Knob $\varnothing 40\text{mm}$ / M8x16

Code	External dimensions of enclosure: $W \times H \times D$ [+/- 2mm]	Frame dimensions: $W_1 \times H_1 \times D_1$ [+/- 2mm]
AWO644	400x400x105	395x395x90

Fire protection installation boxes

Straight-through, distribution, with 1 / 2 fuses

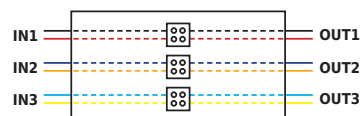
AWOP and AWOZ series

Junction boxes for fire alarm systems are designed for connecting fire protection devices in cable installation systems with fire resistance according to DIN 4102-12 standard, where uninterruptible power supply or transmission of signal in case of fire are required.

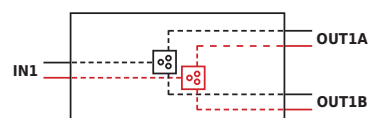


Fire resistance classification E30, E60, E90

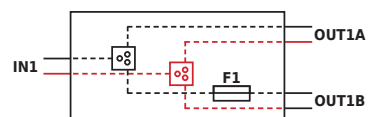
Straight-through



Distribution



Distribution box protected with fuses



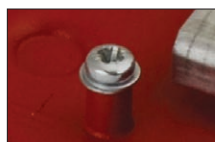
Metal enclosure



Wiring terminals



Ceramic connection blocks



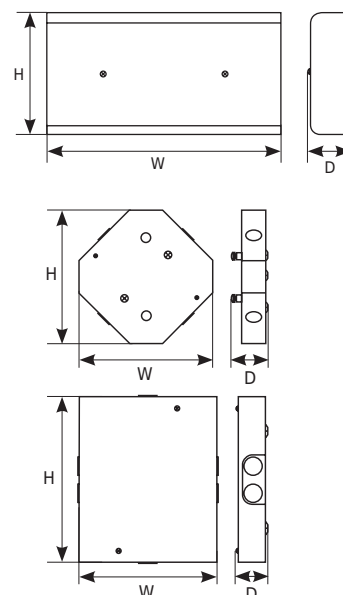
Pins for grounding



**RAL
3001**

Color: red RAL 3001

Code	Voltage	Fuse	Cable cross section	Dimensions / Shape W×H×D [+/- 2mm]
Straight-through boxes				
AWOP-625PP	450VAC	—	2,5mm ²	154×80×30 / □
AWOP-925PP	450VAC	—	2,5mm ²	190×80×30 / □
AWOP-960PP	450VAC	—	6mm ²	204×100×30 / □
Distribution boxes				
AWOP-225PR	450VAC	—	2,5mm ²	154×80×30 / □
AWOP-225SR	450VAC	—	2,5mm ²	120×120×37 / ◇
AWOP-325PR	450VAC	—	2,5mm ²	190×80×30 / □
AWOP-360PR	450VAC	—	6mm ²	204×100×30 / □
AWOP-425SR	450VAC	—	2,5mm ²	120×120×37 / ◇
Distribution boxes with one fuse				
AWOZ-125P	125VAC	1×0,375A	2,5mm ²	154×80×30 / □
AWOZ-125P1A	125VAC	1×1,0A	2,5mm ²	154×80×30 / □
AWOZ-125S	125VAC	1×0,375A	2,5mm ²	120×120×37 / ◇
AWOZ-125S1A	125VAC	1×1,0A	2,5mm ²	120×120×37 / ◇
Distribution boxes with two fuses				
AWOZ-225P	125VAC	2×0,375A	2,5mm ²	122×142×30 / □
AWOZ-225S	125VAC	2×0,375A	2,5mm ²	120×120×37 / ◇



Fire safety instructions box

Enclosure is designed for storage of fire safety instructions. Its design allows multiple opening without need for quick replacement because window is made of plastic instead of glass. This product can also be used as cabinet for other documentation, building plans, etc.



Lock



Tamper switch indicating enclosure opening - 1 piece



Key window

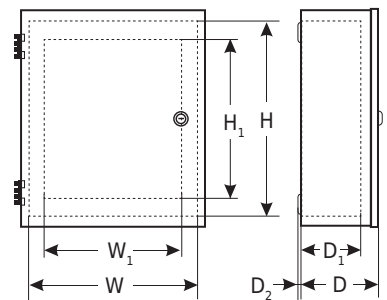


Porcelain screw connection in cabinet



Spacers - 5mm

Code	Application	Dimensions of storage space for documents: $W_1 \times H_1 \times D_1$ [+/- 2mm]	External dimensions of enclosure: $W \times H \times D_2$ [+/- 2mm]
AW0676	documents: <ul style="list-style-type: none"> • fire safety instructions • VAS documentation • building plans 	285×330×40	310×365×70+5



Enclosure for evacuation door key

Enclosure is designed to store evacuation door key. Its design allows multiple opening without need for quick replacement because window is made of plastic instead of glass.



Lock



Tamper switch indicating enclosure opening - 1 piece

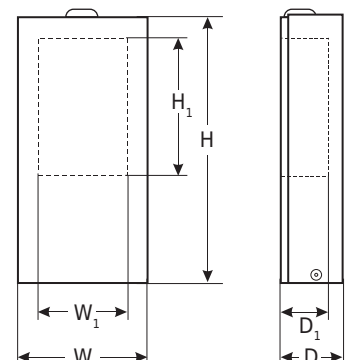


Key window



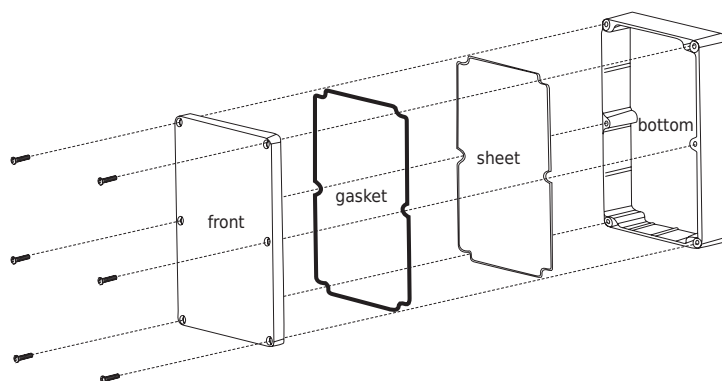
Porcelain screw connection in cabinet

Code	Application	Key space dimensions: $W_1 \times H_1 \times D_1$ [+/- 2mm]	External dimensions of enclosure: $W \times H \times D$ [+/- 2mm]
AW0675	evacuation door key	65×100×30	95×195×43



Plastic enclosures IP65 with mounting plate AWO series

For mounting devices that require IP65 protection class, with mounting plate.



Closing - screwed
- 4/6 pieces



Gasket



Removable back
mounting plate



Hermetic enclosure IP65



Material: ABS

Code	External dimensions of enclosure: $W \times H \times D$ [+/- 2mm]	Internal dimensions of enclosure: $W_1 \times H_1 \times D_1$ [+/- 2mm]	Mounting dimensions of enclosure: $W_2 \times H_2$ [+/- 2mm]	Mounting plate dimensions: $W_3 \times H_3$ [+/- 2mm]
AWO603	160×160×90	123×152×77	145×125	150×110
AWO604	184×263×96	157×236×83	153×251	157×235

Accessories:



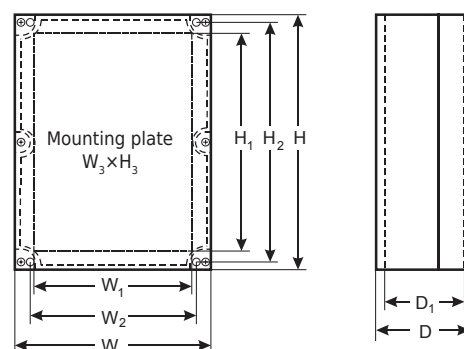
ML146
(M12×1.5)



ML147
(M16×1.5)



ML145
(M20×1.5)



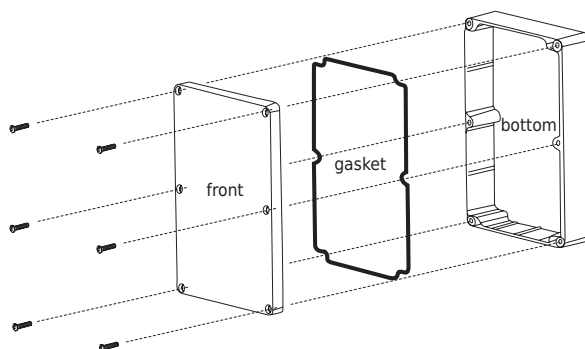
Plastic enclosures IP65 without mounting plate AWP series

For mounting devices that require IP65 protection class.



AWP161609

AWP261809



Closing - screwed
- 4/6 pieces



Gasket



Hermetic enclosure IP65



Material: ABS

Code	External dimensions of enclosure: W×H×D [+/- 2mm]	Internal dimensions of enclosure: W ₁ ×H ₁ ×D ₁ [+/- 2mm]	Mounting dimensions of enclosure: W ₂ ×H ₂ [+/- 2mm]
AWP161609	160×160×90	152×122×80	126×145
AWP261809	185×265×95	158×237×85	152×252

Accessories:



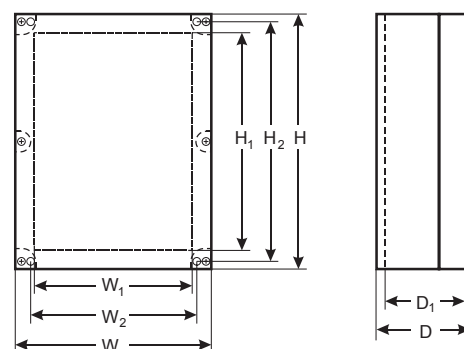
ML146
(M12×1.5)



ML147
(M16×1.5)



ML145
(M20×1.5)



RACK 19" cabinets - wall mounted, ready-to-assemble

RWA series

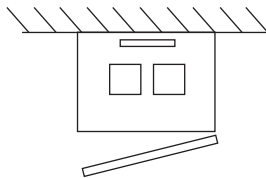
600×450 / 600×600

RACK 19"

RACK 19" cabinets enable integrating CCTV, AC, I&HAS, RTV, LAN, or other systems in small companies or households. They are intended for devices manufactured in enclosures of 19" standard. Thanks to RACK cabinets, devices are aesthetically mounted and protected against mechanical damage.

Help:

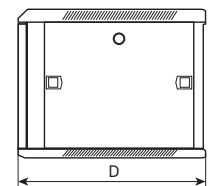
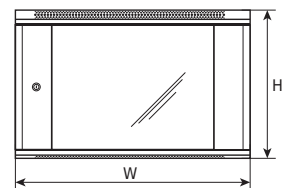
- Use CONFI-RACK® Available on www.pulsar.pl



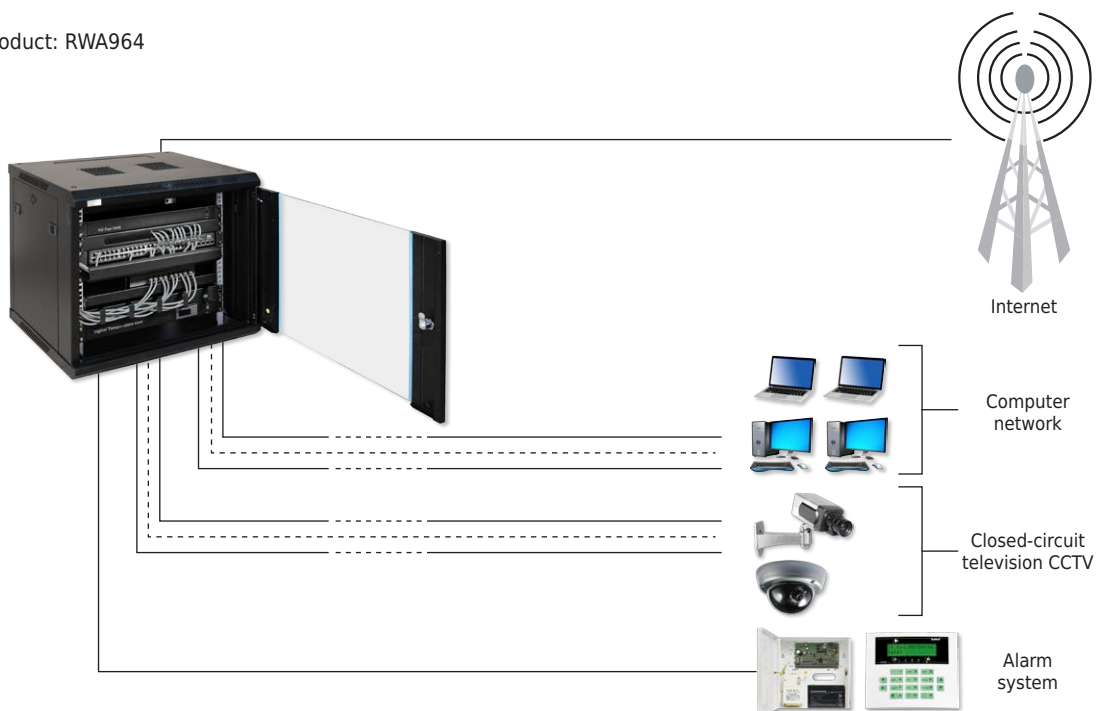
Sample product: RWA964

Standard RACK 19"	Front door: 5mm toughened glass + lock	Possibility of mouting RAZB16 side lock	Pre-embossed 340×56mm	Ventilation	Ready-to-assemble

Code	Static load	Mounting dimensions W×H	External dimensions W×H×D [+/- 2mm]
600×450			
RWA664	70kg	19"×6U	600×372×450
RWA964	70kg	19"×9U	600×502×450
RWA1264	70kg	19"×12U	600×636×450
600×600			
RWA666	70kg	19"×6U	600×372×600
RWA966	70kg	19"×9U	600×502×600
RWA1266	70kg	19"×12U	600×636×600



Sample product: RWA964



RACK 19" cabinets - wall mounted, fully assembled

RW series

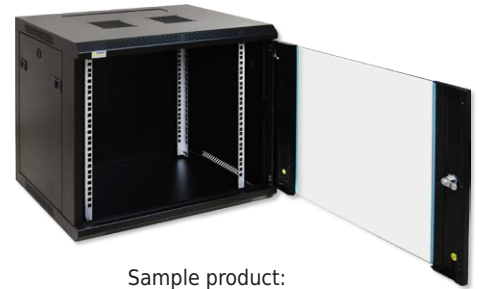
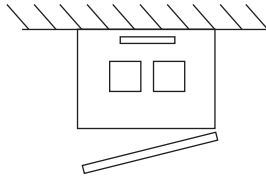
600×450 / 600×600

RACK 19"

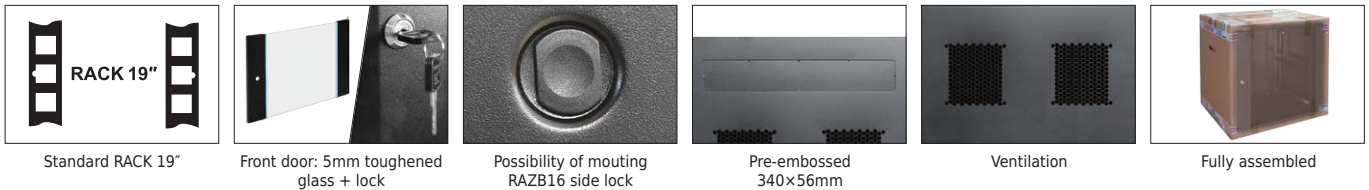
RACK 19" cabinets enable integrating CCTV, AC, I&HAS, RTV, LAN, or other systems in small companies or households. They are intended for devices manufactured in enclosures of 19" standard. Thanks to RACK cabinets, devices are aesthetically mounted and protected against mechanical damage.

Help:

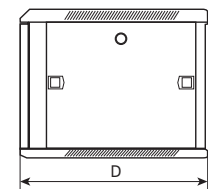
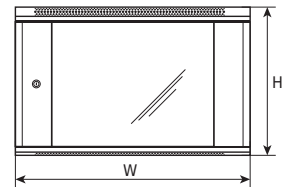
- Use CONFI-RACK® Available on www.pulsar.pl



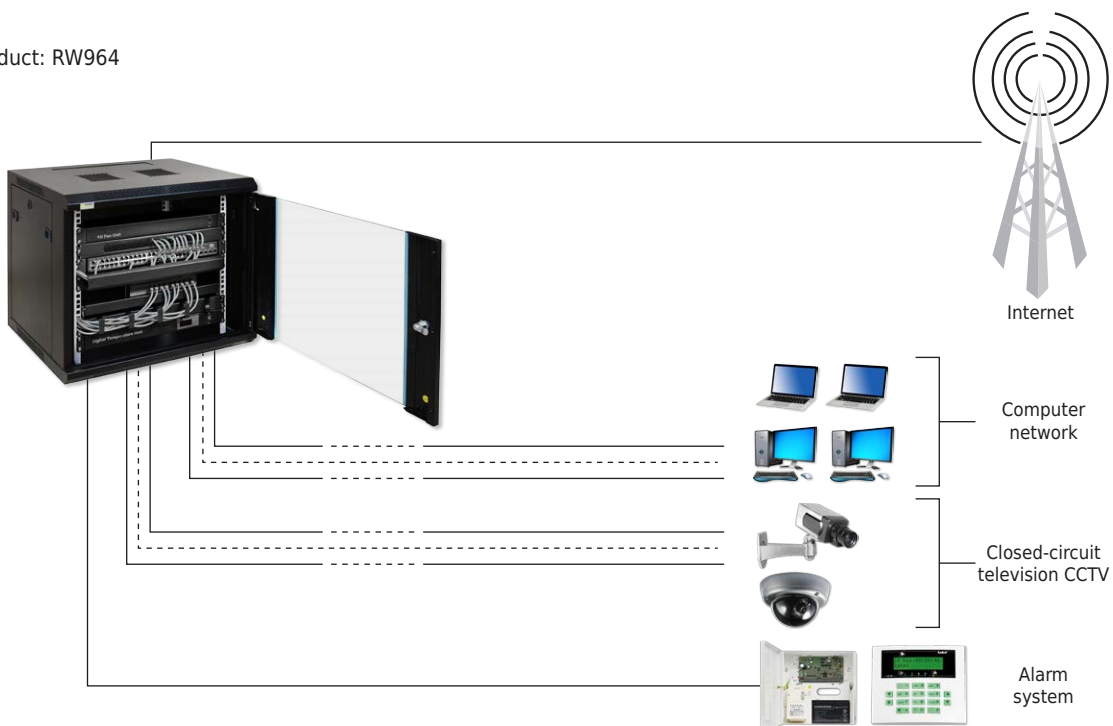
Sample product: RW964



Code	Static load	Mounting dimensions W×H	External dimensions W×H×D [+/- 2mm]
600×450			
RW664	70kg	19"×6U	600×368×450
RW964	70kg	19"×9U	600×503×450
RW1264	70kg	19"×12U	600×636×450
600×600			
RW666	70kg	19"×6U	600×368×600
RW966	70kg	19"×9U	600×503×600
RW1266	70kg	19"×12U	600×636×600
RW1566	70kg	19"×15U	600×770×600



Sample product: RW964



RACK 19" cabinets - double section - fully assembled

RWD series

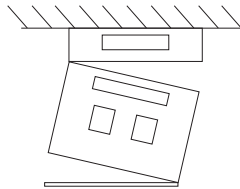
600x600

RACK 19"

RACK 19" cabinets enable integrating CCTV, AC, I&HAS, RTV, LAN, or other systems in small companies or households. They are intended for devices manufactured in enclosures of 19" standard. Thanks to RACK cabinets, devices are aesthetically mounted and protected against mechanical damage.

Help:

- Use CONFIRACK® Available on www.pulsar.pl



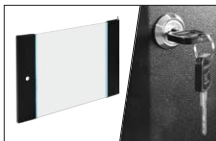
Two-section design



Sample product: RWD1266



Standard RACK 19"



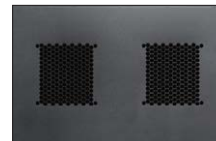
Front door: 5mm toughened glass + lock



Possibility of mounting RAZB16 side lock



Ventilation holes / end caps 273x60mm

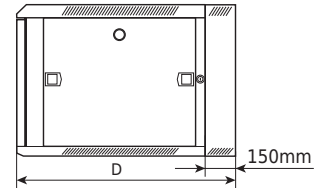
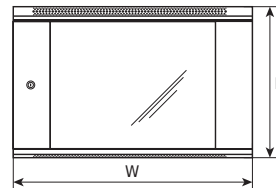


Ventilation

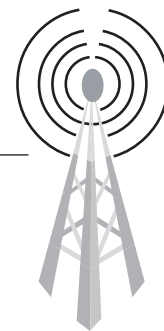


Fully assembled

Code	Static load	Mounting dimensions WxH	External dimensions WxHxD [+/- 2mm]
600x600			
RWD666	70kg	19"x6U	600x368x600
RWD966	70kg	19"x9U	600x501x600
RWD1266	70kg	19"x12U	600x635x600



Sample product: RWD1266



Internet



Computer network



Closed-circuit television CCTV



Alarm system

RACK 19" cabinets - floor standing, ready-to-assemble

RS series

600×600 / 600×800 / 600×1000 / 800×800 / 800×1000

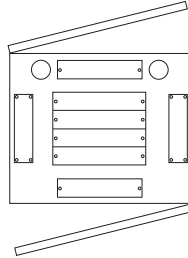
RACK 19"

RACK 19" cabinets enable integrating CCTV, AC, I&HAS, RTV, LAN, or other systems in medium and big companies. They are intended for devices manufactured in enclosures of 19" standard. Thanks to RACK cabinets, devices are aesthetically mounted and protected against mechanical damage.

Help:

- Use CONFI-RACK®
Available on www.pulsar.pl

CONFI
RACK



Sample product:
RS2768



Standard RACK 19"



Front door: 5mm toughened glass + lock RAZ-S



Rear door full sheet + lock RAZ25



Possibility of mounting for RAZB16 side lock

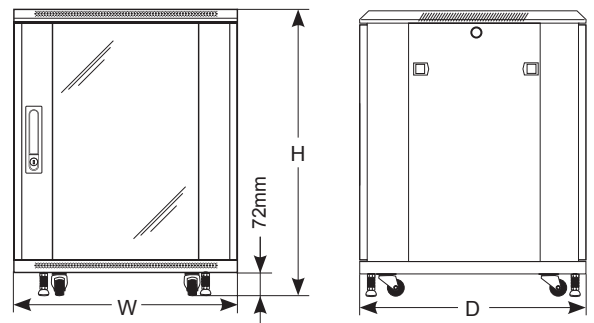


Ventilation holes / End caps



Ready-to-assemble

Code	Static load	Mounting dimensions W×H	External dimensions W×H×D [+/- 2mm]
600×600			
RS1566	1000kg	19"×15U	600×855×600
RS2266	1000kg	19"×22U	600×1166×600
RS4266	1000kg	19"×42U	600×2055×600
600×800			
RS2768	1000kg	19"×27U	600×1388×800
RS4268	1000kg	19"×42U	600×2055×800
600×1000			
RS2761	1000kg	19"×27U	600×1388×1000
RS4261	1000kg	19"×42U	600×2055×1000
800×800 - server			
RS4288	1000kg	19"×42U	800×2055×800
800×1000 - server			
RS4281	1000kg	19"×42U	800×2055×1000



Sample product: RS2768



Internet



Computer network



Closed-circuit television CCTV



Alarm system

RACK 19" cabinets - floor standing, fully assembled

ZRS series

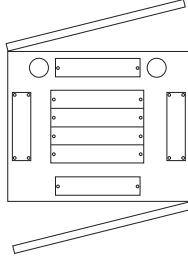
600×600 / 600×800 / 600×1000

RACK 19"

RACK 19" cabinets enable integrating CCTV, AC, I&HAS, RTV, LAN, or other systems in medium and big companies. They are intended for devices manufactured in enclosures of 19" standard. Thanks to RACK cabinets, devices are aesthetically mounted and protected against mechanical damage.

Help:

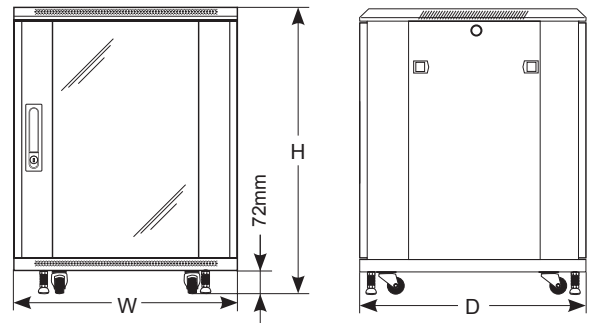
- Use CONFIRACK® Available on www.pulsar.pl



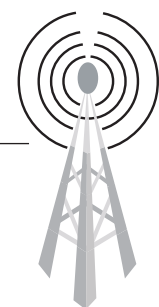
Sample product: ZRS2768



Code	Static load	Mounting dimensions W×H	External dimensions W×H×D [+/- 2mm]
600×600			
ZRS1566	1000kg	19"×15U	600×855×600
ZRS2266	1000kg	19"×22U	600×1166×600
ZRS4266	1000kg	19"×42U	600×2055×600
600×800			
ZRS2768	1000kg	19"×27U	600×1388×800
ZRS4268	1000kg	19"×42U	600×2055×800
600×1000			
ZRS2761	1000kg	19"×27U	600×1388×1000
ZRS4261	1000kg	19"×42U	600×2055×1000



Sample product: ZRS2768



Internet



Computer network



Closed-circuit television CCTV



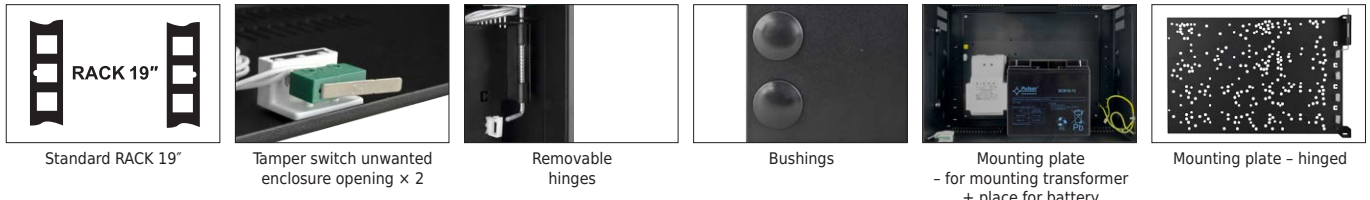
Alarm system

Accessories for RACK 19" cabinets

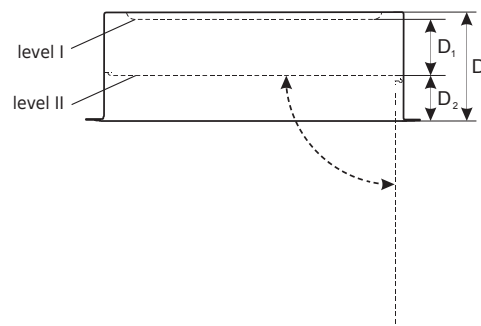
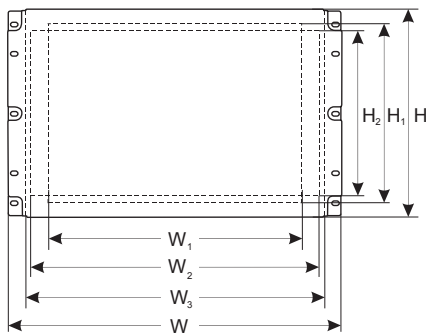
Enclosure for alarm control panel - vertical

RACK 19"

RAW07 metal enclosure is designed for mounting alarm control panel and input/output modules in RACK 19" cabinets. This enclosure is fitted with removable mounting plate (level I) and removable hinged mounting plate (level II). Enclosure has place for single 7Ah / 12V battery. Mounting plate (level I) has pre-embossed for transformer of TRP / and TRZ series and built-in power supply units of PS / PSB / and PSG2 series by Pulsar. Hinged mounting plate (level II) has openings for control panels and expansion modules from following companies: DSC, PARADOX, RISCO, SATEL, PYRONIX, CROW, and ROGER.



Code	Static load	Mounting dimensions W×H	Dimensions W / W ₃ / H / D [+/- 2mm]	Mounting plate (level I) W ₁ ×H ₁ ×D ₁ [+/- 2mm]	Hinged mounting plate (level II) W ₂ ×H ₂ ×D ₂ [+/- 2mm]
RAW07	20kg	19"×7U	483 / 431 / 310 / 152	350×268×85	400×262×55



Accessories:



ARAP16P / ARAP21P



MM019 / MM020



ARAW45

Possible to be mounted inside enclosure:



Accessories for RACK 19" cabinets

Enclosures for alarm control panel - horizontal, sliding

RACK 19"

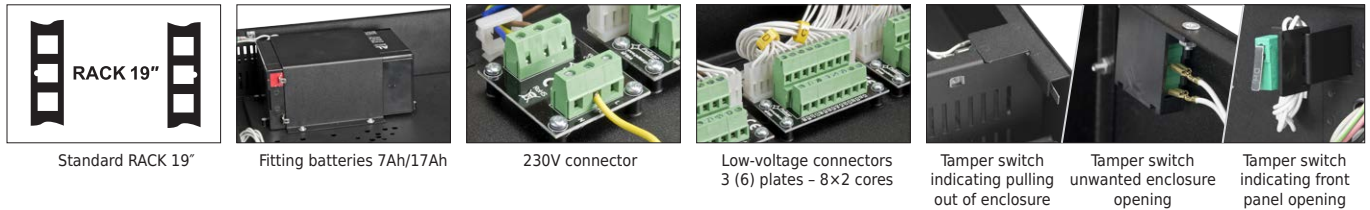
RACK security enclosures are designed for mounting alarm control panel and input / output modules in free-standing RACK 19" cabinets with depths in range from 800 to 1000 mm. They consist of two elements:

1. Patch panel is used to switch between YTDY 6x0,5 cable with copper cores and elastic cable supplying signals and power to control panel.
2. Pull out enclosure with 2U / 4U height - alarm control panel and input / output modules are mounted in this section - with space for 7Ah / 17Ah battery, transformer and ARAW45 fan (transformer and fan are not included).



Sample product:
ARAD-S4

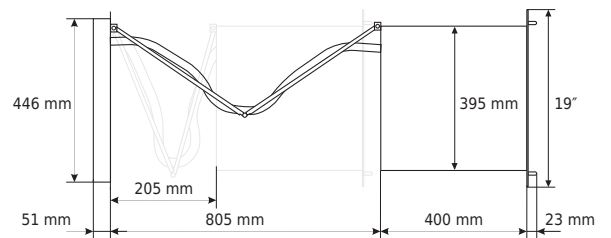
Universal holes in enclosure allow mounting control panels and expansion modules of following companies: DSC, PARADOX, RISCO, SATEL, PYRONIX, CROW, ROGER.



Code	Signal wires (pairs x cross-section)	Number of PCB boards	Maximum current	Fitting battery	Mounting dimensions WxH	Mounting plate (level I)	Hinge mounting plate (level II)
ARAD-S2	24x0,5	3	1,5A / 30VDC	7Ah / 12V	19"x2U	250x260 (358x330)	n/a
ARAD-S4	48x0,5	6	1,5A / 30VDC	17Ah / 12V	19"x4U	155x278 (360x342)	370x284 (370x352)

For mounting inside RACK cabinet, use ARAS rails. Depending on its depth:

- ARAS800 for RACK cabinets, depth D=800
- ARAS1000 for RACK cabinets, depth D=1000



Accessories:

- ARAS800 / ARAS1000
- MM019 / MM020 / MM064
- ARAP16P / ARAP21P
- ARAW45
- AWZ618



Sample product: ARAD-S4



Possible to be mounted inside enclosure:



Accessories for RACK 19" cabinets

ARAD enclosures

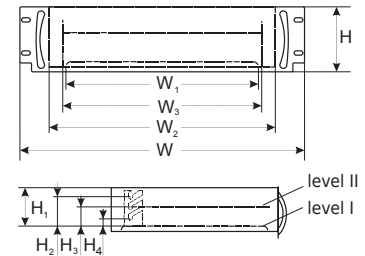
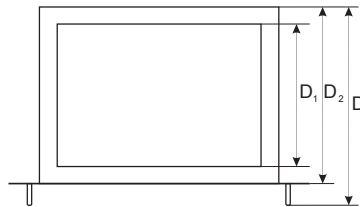
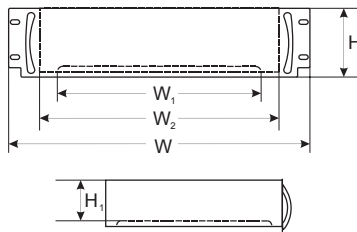
RACK 19"

Enclosures are intended for mounting inside RACK 19" cabinets. Enclosures allow integrate elements of CCTV, AC, I&HAS, RTV, LAN systems in RACK 19" cabinets. They are intended for mounting alarm control panels, AC controllers, power supply units, batteries, etc.

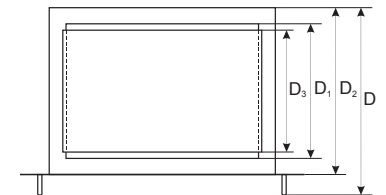


Sample product:
ARAD2

Code	Dedicated for RACK 19" cabinets with depth	Installation		Mounting dimensions W×H	Dimensions W ₂ ×D ₂ [+/- 2mm]	Mounting plate (level I) W ₁ ×D ₁ ×H ₁ [+/- 2mm]	Hinged mounting plate (level II) W ₃ / D ₃ / H ₂ / H ₃ / H ₄ [+/- 2mm]
		ARAS sliding rails	Front mounting (without ARAS rails...)				
ARAD1S	450	—	✓	19"×1U	395×270	n/a, H ₁ =40	n/a
ARAD2S		✓	✓	19"×2U	395×270	358×228×70	n/a
ARAD3S		✓	✓	19"×3U	395×400	358×358×70	n/a
ARAD4S		✓	✓	19"×4U	395×270	358×228×113	n/a
ARAD2	600 / 800 / 1000	Accordingly to cabinet's depth: • depth 450 - ARAS450 • depth 600 - ARAS600 • depth 800 - ARAS800 • depth 1000 - ARAS1000	✓	19"×2U	395×400	358×358×113	n/a
ARAD3			✓	19"×3U	395×270	358×228×160	362 / 220 / 116 / 87 / 56
ARAD4			✓	19"×4U	395×400	358×358×160	362 / 350 / 116 / 87 / 56



Sample product: ARAD2



Possible to be mounted inside enclosure:



Power supply unit



Transformer



Battery



Alarm control
panel



Modules

Accessories for ARAD

ARAS rails for ARAD enclosures

Code	Dedicated for RACK 19" cabinets with depth				Mounting dimensions W×H	Adjustment D ₁ +D ₂ [+/- 2mm]	Dimensions W / H ₁ / D [+/- 2mm]
	450	600	800	1000			
ARAS450	✓	—	—	—	19"×1U	262÷388	40 / 48 / 270
ARAS600	—	✓	—	—	19"×1U	415÷610	40 / 48 / 400
ARAS800	—	—	✓	—	19"×1U	507÷705	40 / 48 / 400
ARAS1000	—	—	—	✓	19"×1U	668÷794	40 / 48 / 400



ARAS... rails



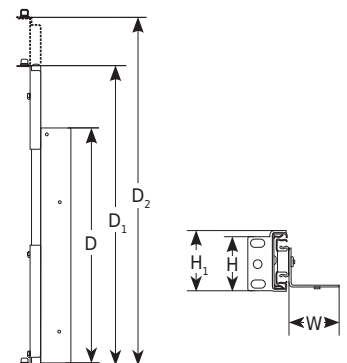
ARAW45 fan



ARAP16P, ARAP21P
glands



MM019, MM020
cable protection conduit



Accessories for RACK 19" cabinets

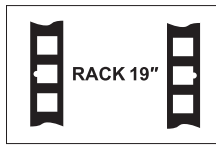
Drawers

2U / 3U / 4U high RACK drawers are intended for storing / mounting supplementary elements in RACK cabinets.

RACK 19"



Sample product:
RASR3



Standard RACK 19"



Front mounting

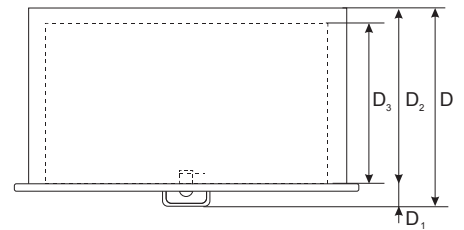
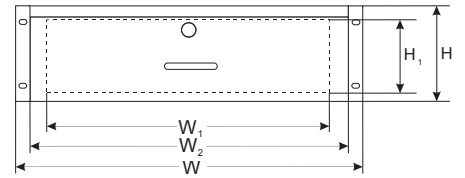


Lock



Partial extension
slide

Code	Mounting dimensions $W \times H \times D_2$	Dimensions $W \times H \times D$ [+/- 2mm] $W_1 \times H_1 \times D_3$ [+/- 2mm]
RASR2	19" x 2U x 360mm	482 x 88 x 392 400 x 66 x 340
RASR3	19" x 3U x 360mm	482 x 132 x 392 400 x 109 x 340
RASR4	19" x 4U x 360mm	482 x 178 x 392 400 x 155 x 340



Sample product: RASR3



Accessories for RACK 19" cabinets

Enclosures with DIN rail

RACK 19"

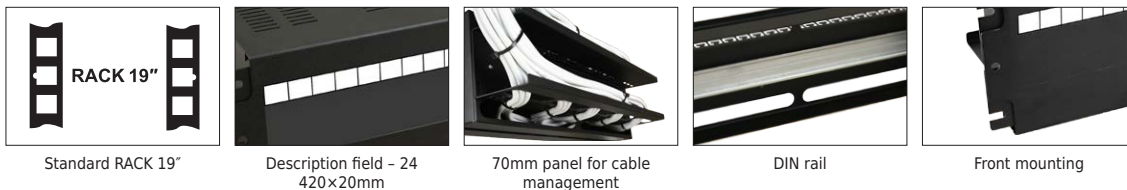
ARADIN1 - Voltage distribution panel is intended for mounting S type fuses: in RACK 19" cabinet. One enclosure can accommodate max. 24 fuses, 1S wide.

ARADIN2 / ARADIN3 - Enclosures with DIN rail for RACK cabinets are intended for mounting equipment located inside. Each enclosure has rail, length: 24x1S. Height of module cannot exceed 160mm.

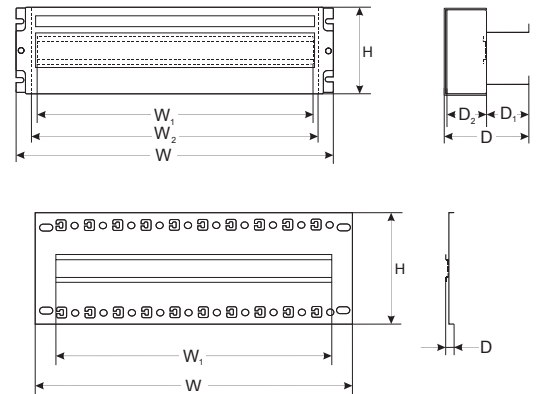
RADIN - Mounting plate of 4U high with DIN rail is designed for mounting devices on DIN rail in rear side of RACK 19" cabinets. Combination of rail with steel plate ensures tight mounting of device on rail including possibility of attaching power cables / signal cables to mounting plate. RADIN offers economical alternative for enclosures ARADIN1, ARADIN2, ARADIN3 mounted in RACK 19" cabinets.



Sample product:
ARADIN3



Code	Number of "S" fields W_1	Mounting dimensions $W \times H$	Dimensions $W \times H \times D$ [± 2 mm] $W_1 / W_2 / D_1 / D_2$ [± 2 mm]
ARADIN1	24	19" x 3U	482 x 131 x 140 435 / 444 / 70 / 62
ARADIN2	24	19" x 3U	482 x 131 x 235 435 / 444 / 70 / 162
ARADIN3	24	19" x 4U	482 x 174 x 235 435 / 444 / 70 / 162
RADIN	25	19" x 4U	483 x 176 x 21 440 / - / - / -



Sample product: ARADIN3



Possibility of installing:



Electric fuses of „S" type



Power supply units



Battery 18Ah/12V



Access control (AC)



Operating automation module



Accessories for RACK 19" cabinets

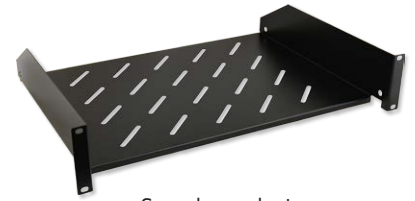
Fixed shelves

RACK 19"

RAPD600 - Front mounted shelf with dimensions of 445x315 is universal fixed shelf dedicated for RACK 19" cabinets of RWA / RW / RWD / RS and ZRS type.

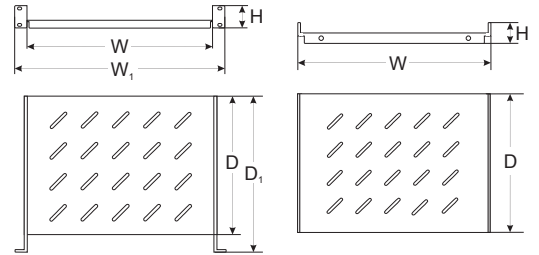
RAPDS - Shelf dedicated to switches:
S64, S108, S108-90W
SG64, SG108, SG108-90W
SFG64, SFG64F1

RAPS... - Fixed shelves for RACK 19" cabinets of RWA / RW / RWD / RS and ZRS type. They are side mounted in RACK profiles.



Sample product:
RAPD600

Code	For RACK cabinets, type / Depth								Shelf dimensions WxD [+/- 2mm]	External dimensions W ₁ / H / D ₁ [+/- 2mm]
	RWA		RW		RWD	RS and ZRS				
	450	600	450	600	600	600	800	1000		
RAPD600	✓	✓	✓	✓	✓	✓	✓	✓	445x315	483 / 87 / 350
RAPDS	✓	✓	✓	✓	✓	✓	✓	✓	445x242	485 / 45 / 242
RAPS450	✓	—	✓	—	✓	—	—	—	485x250	— / 48 / —
RAPS600	—	✓	—	✓	—	✓	—	—	485x350	— / 48 / —
RAPS800	—	—	—	—	—	—	✓	—	485x550	— / 48 / —
RAPS1000	—	—	—	—	—	—	—	✓	485x750	— / 48 / —



Accessories for RACK 19" cabinets

Sliding shelves

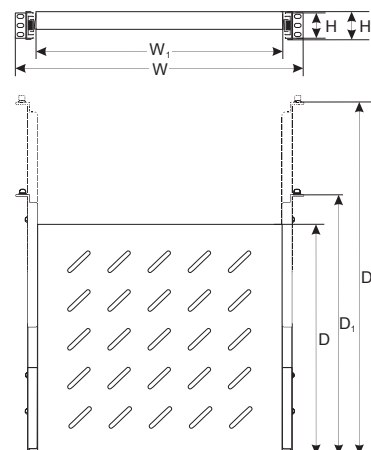
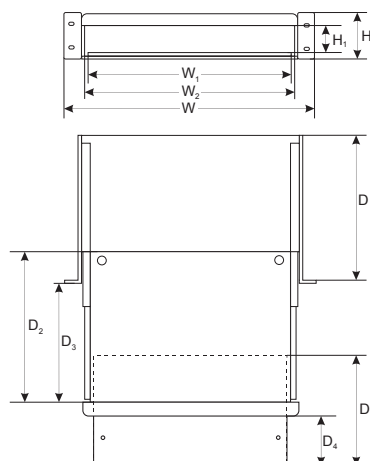
RAPW-K - Pull out shelf for keypads and mouse dedicated for free-standing RACK cabinets with computer to monitor / configure devices included in system.

RAPW... - Pull-out shelves for RACK 19" cabinets of RWA / RW / RWD / RS and ZRS type. They are mounted in front and rear RACK profiles and offer possibility of smooth adjustment of rear brackets. Rails have 15kg load capacity and full extension slide possibility which guarantees easy access to devices mounted inside RACK cabinets.



Sample product:
RAPW600

Code	For RACK cabinets, type / Depth								Static load	Mounting dimensions WxH	Shelf dimensions W ₁ x D [+/- 2mm]	Adjustment D ₁ +D ₂ [+/- 2mm]
	RWA		RW		RWD	RS and ZRS						
	450	600	450	600	600	600	800	1000				
RAPW-K	—	—	—	—	—	✓	✓	✓	20 kg	19"×2U	(W ₁ =408, D ₁ =300) (W ₂ =414, D ₂ =303)	—
RAPW450	✓	—	✓	—	✓	—	—	—	15 kg	19"×1U	420×280	261+390
RAPW600	—	✓	—	✓	—	✓	—	—	15 kg	19"×1U	420×400	412+610
RAPW800	—	—	—	—	—	—	✓	—	15 kg	19"×1U	420×550	463+661
RAPW1000	—	—	—	—	—	—	—	✓	15 kg	19"×1U	420×730	623+822



Accessories for RACK 19" cabinets

Mounting rails

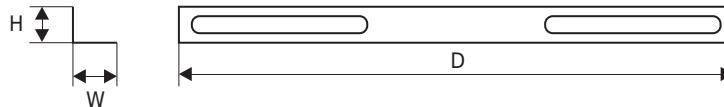
RACK 19"

RASM... - mounting rails 450 / 600 / 800 / 1000 are intended for supporting mount heavy devices (switch, PSU, UPS) in RACK 19" cabinets.



Sample product:
RASM600

Code	For RACK cabinets, type / depth								Dimensions W×H×D [+/- 2mm]
	RWA		RW		RWD	RS and ZRS			
	450	600	450	600	600	600	800	1000	
RASM450	✓	—	✓	—	✓	—	—	—	45×45×250
RASM600	—	✓	—	✓	—	✓	—	—	45×45×350
RASM800	—	—	—	—	—	—	✓	—	45×45×550
RASM1000	—	—	—	—	—	—	—	✓	45×45×750



Accessories for RACK 19" cabinets

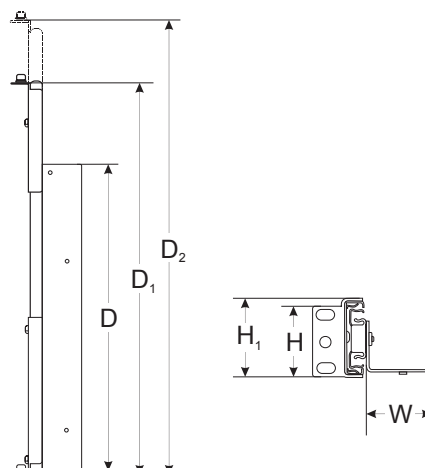
Sliding mounting rails

ARAS rails for ARAD enclosures.



Sample product:
ARAS450

Code	For RACK cabinets with depth				Mounting dimensions W×H	Adjustment D ₁ ÷D ₂ [+/- 2mm]	Dimensions W / H ₁ / D [+/- 2mm]
	450	600	800	1000			
ARAS450	✓	—	—	—	19"×1U	262÷388	40 / 48 / 270
ARAS600	—	✓	—	—	19"×1U	415÷610	40 / 48 / 400
ARAS800	—	—	✓	—	19"×1U	507÷705	40 / 48 / 400
ARAS1000	—	—	—	✓	19"×1U	668÷794	40 / 48 / 400

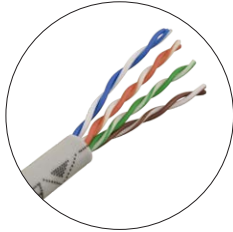


Accessories for RACK 19" cabinets

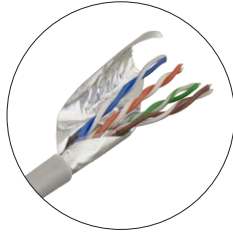
Patch panels - Cat. 5e and 6 - UTP / FTP

RACK 19"

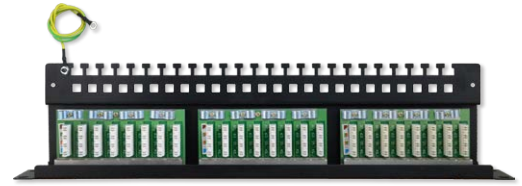
Patch panels are final element of structured network cabling in RACK 19" cabinets. Fundamental element of telecommunication network.



UTP twisted pair (unshielded)

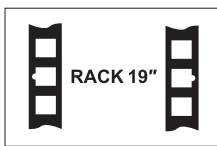


FTP twisted pair (shielded)

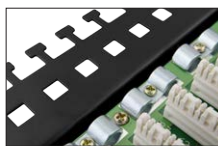


Sample product: RP-F24V6

Applies: RP-F24V5 and RP-F24V6



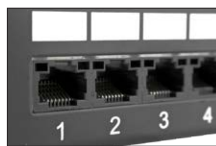
Standard RACK 19" x1U



Twisted pair assembly



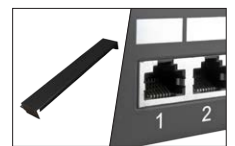
Graphic designation A / B



Label field of RJ45 connector



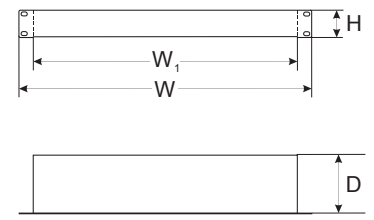
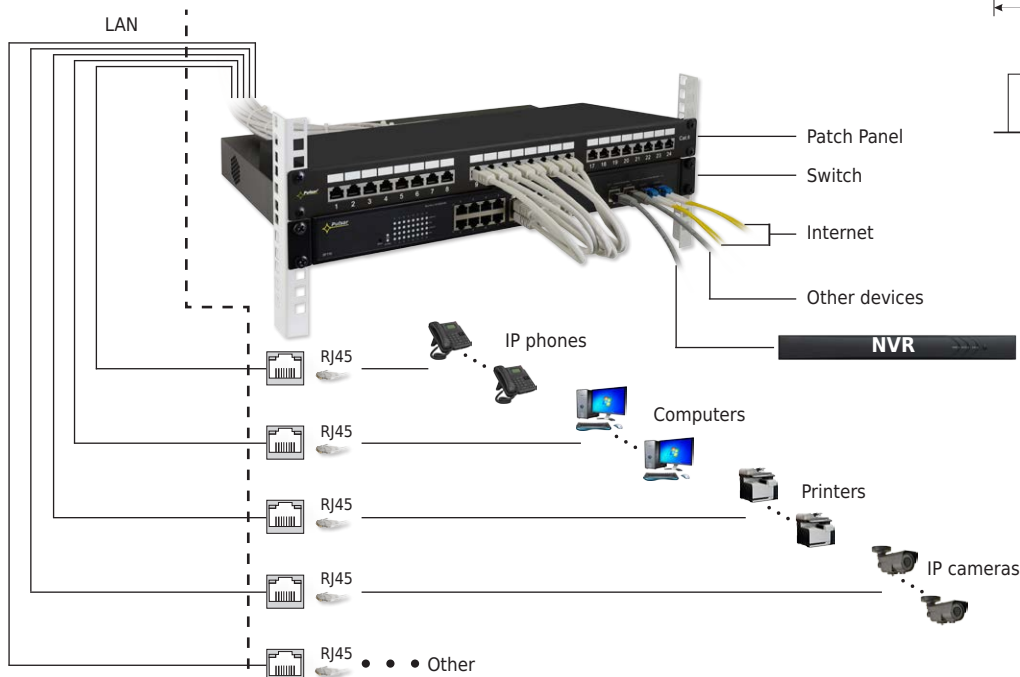
Grounding wire



Shielding elements

Code	Number of ports	Category	Twisted pair type	Mounting dimensions W×H×D	Installation of connectors LSA	Description field /	Numbering of RJ45 connectors	Mounting shelf for cables
RP-U24H5	24	Cat 5e	UTP	19"×1U×120mm	vertical	✓ /	✓	✓
RP-U24V5	24	Cat 5e	UTP	19"×1U×110mm	horizontal	✓ /	✓	✓
RP-U48V5	48	Cat 5e	UTP	19"×1U×89mm	horizontal	— /	✓	✓
RP-F24V5	24	Cat 5e	FTP	19"×1U×110mm	horizontal	✓ /	✓	✓
RP-U24V6	24	Cat 6	UTP	19"×1U×110mm	horizontal	✓ /	✓	✓
RP-F24V6	24	Cat 6	FTP	19"×1U×110mm	horizontal	✓ /	✓	✓

Sample product: RP-F24V6



Accessories for RACK 19" cabinets

Fans

RACK 19"

RAW1 / RAW2 – Fan designed for mounting in upper plate of wall mounted RACK cabinets of RWA / RW / RWD type. Forces air circulation from inside cabinet to outside. Mounted from inside, in upper part of RACK cabinet. They are fitted with 230VAC non-detachable power cable with 2m length.

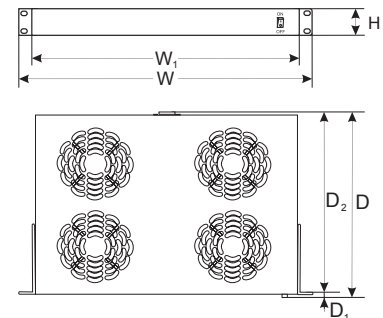
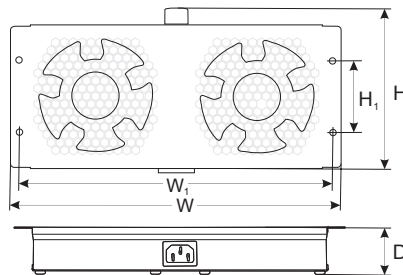
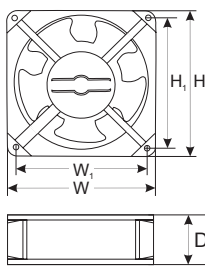
RAWP – Panel of two fans designed for mounting in upper plate of free-standing RACK cabinets of RS / ZRS type. Forces air circulation from inside cabinet to outside. Mounted from outside, in upper part of RACK cabinet. Possibility of cascade connection of panels. It is fitted with 230VAC detachable power cable with 2m length.

RAWP-1 – Panel of four fans in RACK 19" enclosure with 1U height. Forces air circulation between active devices generating heat inside RACK cabinets. It is fitted with 230VAC detachable power cable with 2m length. Thermostats RAT and RAT-1R are dedicated for RAWP-1 fans panel.



Sample product:
RAWP-1

Code	Number of fans	Dedicated for RACK 19" cabinets:					Mounting dimensions $W_1 \times H_1$	Dimensions $W \times H \times D$ [± 2 mm]
		RWA	RW	RWD	RS	ZRS		
RAW1	1	✓	✓	✓	—	—	105×105	120×120×38
RAW2	2	✓	✓	✓	—	—	105×105	120×120×38
RAWP	2	—	—	—	✓	✓	285×65	298×150×47
RAWP-1	4	✓	✓	✓	✓	✓	(W×H) 19"×1U	483×43×304



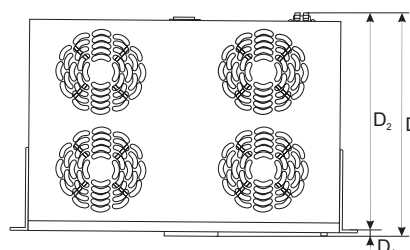
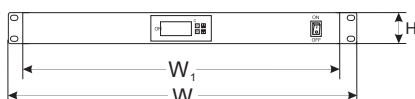
Accessories for RACK 19" cabinets

Fans with thermostat

RAWP-1R – Panel of four fans with integrated digital thermostat in RACK 19" enclosure with 1U height. Forces air circulation between active devices generating heat inside RACK cabinets. It is fitted with detachable temperature sensor with 2m length and with 230VAC detachable power cable with 2m length.



Code	Mounting dimensions $W \times H$	Dimensions $W \times H \times D$ [± 2 mm] $W_1 / D_1 / D_2$ [± 2 mm]
RAWP-1R	19"×1U	483×43×315 430 / 10 / 305



Accessories for RACK 19" cabinets

Thermostats

RACK 19"

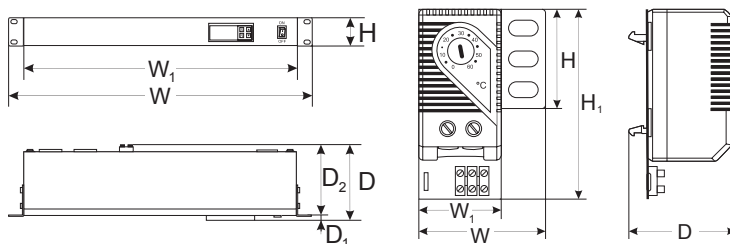
RAT - Bimetallic thermostat dedicated for controlling fan units of RAW1 / RAW2 and RAWP type. Equipped with 1 U metal bracket for mounting on RACK profile.

RAT-1R - Digital thermostat panel in RACK 19" enclosure with 1U height. It is fitted with two power sockets - used for controlling fan units of RAW1 / RAW2 and RAWP type. Panel is fitted with detachable temperature sensor with 2m length and with 230VAC detachable power cable with 2m length.



Sample product:
RAT-1R

Code	Mounting dimensions W×H	Dimensions W×H×D [+/- 2mm] W ₁ / H ₁ / D ₁ / D ₂ [+/- 2mm]
RAT	1U	53×41×43 34 / - / - / -
RAT-1R	19"×1U	483×43×130 430 / - / 10 / 120



Accessories for RACK 19" cabinets

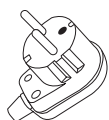
Power distribution units

Power distribution units are mounted between RACK profiles. They enable plugging up to 8 devices supplied with 230VAC.

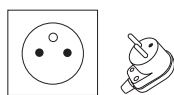


Sample product:
RALZ/F

RALZ

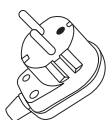


plug:
type: E/F
(„Unischuko“)

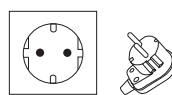


socket:
type: E

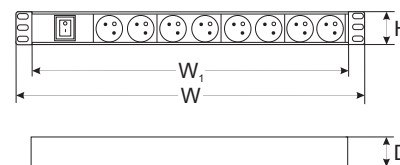
RALZ/F



plug:
type: E/F
(„Unischuko“)



socket:
type: F
(„Schuko“)



Code	Plug type	Socket type	Number of sockets	Power	Mounting dimensions W×H	Dimensions W×H×D [+/- 2mm]
RALZ	E/F „Unischuko“	E	8	3500W	19"×1U	484×45×45
RALZ/F	E/F „Unischuko“	F „Schuko“				

Accessories for RACK 19" cabinets

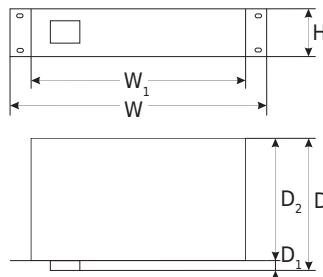
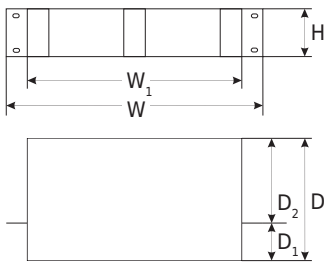
Battery enclosures

RACK 19"

RAKU2 - Battery enclosure for RACK 19" cabinets designed for installation of 2x17Ah or 4x7Ah batteries. It is mounted in rear of RACK cabinet (of RWA / RW / RWD / RS and ZRS series) behind buffer power supply units and buffer switches.

RAKU3 - Battery enclosure for RACK 19" cabinets designed for installation of 4x17Ah or 4x7Ah batteries. It is fitted with four BAT1+BAT4 connectors for capacity and voltage configuration of batteries inside enclosure.

Code	Fitting batteries	Mounting dimensions W×H	Dimensions W×H×D [+/- 2mm] W ₁ / D ₁ / D ₂ [+/- 2mm]
RAKU2	2x17Ah / 12V 4x7Ah / 12V	19"×2U	483×88×180 429 / 60 / 120
RAKU3	4x17Ah / 12V 4x7Ah / 12V	19"×2U	483×88×422 435 / 12 / 410



RAKU2



RAKU3

Accessories for RAKU2:



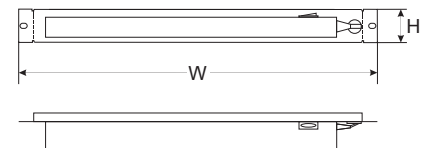
RAKU2-ZP

Accessories for RACK 19" cabinets

Lighting

RAOS lighting should be mounted at rear or at front side of RACK 19" cabinets. It is designed for lighting inside of cabinet during installation or servicing.

Code	Power supply	Mounting dimensions W×H
RAOS	230VAC / 5W	19"×1U



Accessories for RACK 19" cabinets

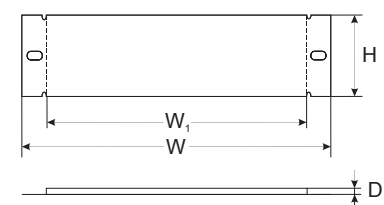
Blanking panels

Blanking panels for RACK 19" cabinets are intended for blanking empty spaces between equipment mounted inside cabinets.

Code	Mounting dimensions W×H	Dimensions W×H×D [+/- 2mm]
RAPZ1	19"×1U	482×45×12
RAPZ2	19"×2U	482×88×12
RAPZ3	19"×3U	482×133×12
RAPZ4	19"×4U	482×177×12



Sample product:
RAPZ4



Accessories for RACK 19" cabinets

Patch panel frames

RACK 19"

Patch panel frames are designed for installation (depending on model) up to 24 „F” type / Keystone RJ45 / single SC-APC / double SC-APC connectors in RACK 19" cabinets.



RAP-F



RAP-RJ45



RAP-SCAPC1



RAP-SCAPC2



Sample product:
RAP-SCAPC2

Code	Connector type	Accessories	Module space	Mounting dimensions W×H	Dimensions W×H×D [+/- 2mm]
RAP-F	F	GF-GF	24	19"×1U	483×43×13
RAP-RJ45	keystone RJ45	GF-GF-K, RJ45/5U-K			
RAP-SCAPC1	SC / APC	SC/APC-1SM			
RAP-SCAPC2	double SC / APC modules	SC/APC-2SM			

Accessories:



GF-GF



GF-GF-K



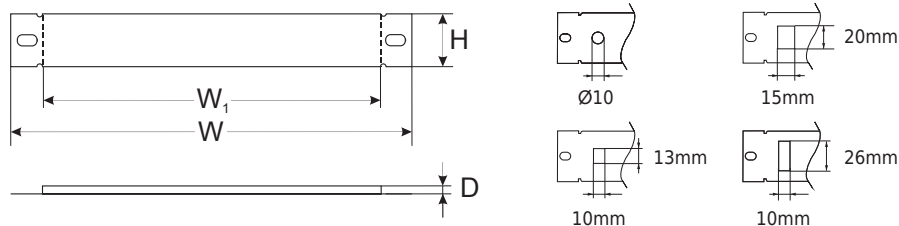
RJ45/5U-K



SC/APC-1SM



SC/APC-2SM



Accessories for RACK 19" cabinets

Cable management panels

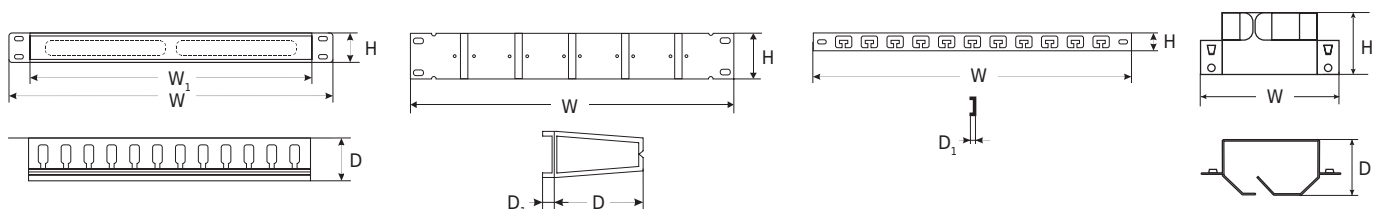
RAOK-1M/P/T - Cable management panels are designed to organize and protect horizontal cabling in RACK cabinet against accidental damage.

RAOK-LR - Cable management panel is designed to organize and protect vertical cabling in RACK cabinets of RS / ZRS type against accidental damage (RACK cabinet width - 600mm).



Sample product:
RAOK-1P

Code	Mounting dimensions W×H	Dimensions W×H×D [+/- 2mm]
RAOK-1M	19"×1U	483×44×70
RAOK-1P	19"×1U	482×44×69
RAOK-1T	19"×1U	483×35×11
RAOK-LR	—	116×52×45



Accessories for RACK 19" cabinets

Brush grommets

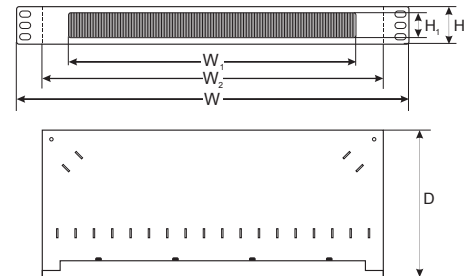
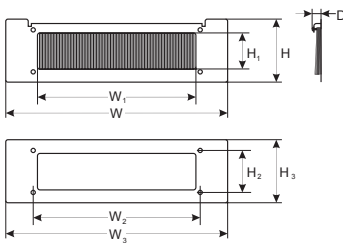
RACK 19"

Brush grommets for RACK cabinets enable entering cables aesthetically and protect cabinet against intrusion of any objects.



Sample product:
RAPS-1P

Code	Dedicated for RACK 19" cabinets:					Mounting dimensions W×H	Dimensions W×H×D [+/- 2mm] W ₁ ×H ₁ [+/- 2mm]
	RWA	RW	RWD	RS	ZRS		
RAPS-U	✓	✓	✓	—	—	—	380×80×16 230×40
RAPS	—	—	—	✓	✓	—	273×64×16 220×40
RAPS-1	✓	✓	✓	✓	✓	19"×1U	483×44×16 320×25
RAPS-1P	✓	✓	✓	✓	✓	19"×1U	483×44×322 320×25



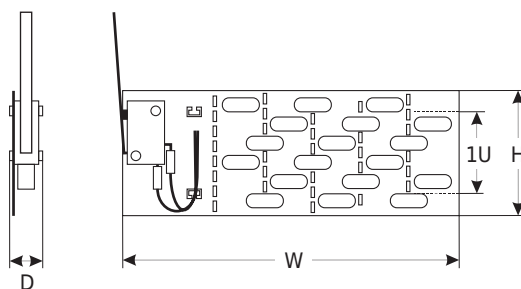
Accessories for RACK 19" cabinets

Tampers

Tampers are designed to protect RACK 19" cabinets against unauthorized opening. Alarm is activated by opening front, rear or side door of cabinet.



Code	For RACK cabinets	External dimensions W×H×D [+/- 2mm]
RWST	RW / RWA / RWD / RS / ZRS	153×66×17

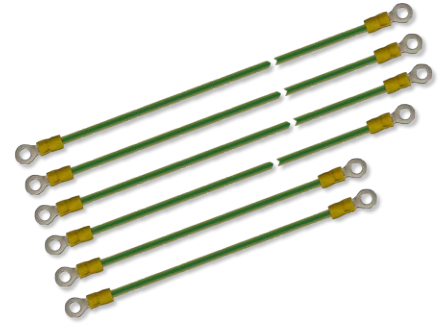


Accessories for RACK 19" cabinets

Grounding wires

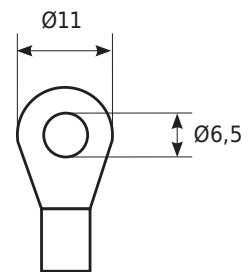
Sets of grounding wires are designed to ground all components of RACK 19" cabinets.

RACK 19"



Sample product:
RAPU

Code	For RACK cabinets	Length
RAPU	RWA / RW / RWD	3×120cm, 1×60cm, 2×30cm
RAPU-Z	RS / ZRS	1×280cm, 1×80cm, 6×40cm



Accessories for RACK 19" cabinets

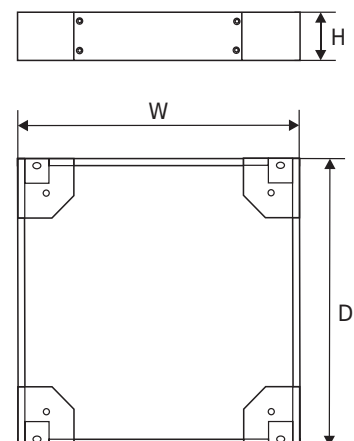
Plinths

Plinths with height of 100mm are designed for RS and ZRS free-standing cabinets. Allow stabilizing cabinet and floor mounting.



Sample product:
RAC166M

Code	For RACK cabinets, type: RS / ZRS width × depth [mm]	Dimensions W×H×D [+/- 2mm]
RAC166M	600×600	596×100×596
RAC168M	600×800	596×100×796
RAC1610M	600×1000	596×100×996
RAC188M	800×800	796×100×796
RAC1810M	800×1000	796×100×996



Accessories for RACK 19" cabinets

Casters, leveling feet

RACK 19"

RAK - Casters for free standing RACK cabinets. Set of 4 casters enables easy moving and position adjustment of cabinet.

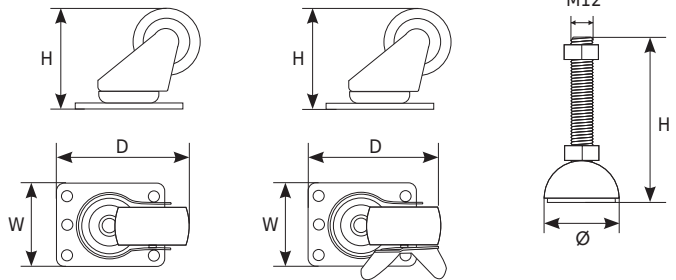
RAKB - Casters for free standing RACK cabinets. Set of 4 casters enables easy moving of cabinet and locking it in selected position.

RAN - Leveling feet are for leveling and stabilising RACK cabinet.



Sample product:
RAKB

Code	Dimensions W×H×D [+/- 2mm]
RAK	55×70×85
RAKB	55×70×85
RAN	M12 / Ø=32, H=90



Accessories for RACK 19" cabinets

Locks, screws

RAZ25 - Universal round lock 25 is intended for front / rear door of RACK cabinets, type: RWA, RW, RWD, RS, ZRS.

RAZB16 - Round side panel lock 16 is intended for mounting in side panels of RACK cabinets, type: RW, RWD, RS, ZRS.

RAZ-D - Lock intended to rear door of RACK cabinets RWD series.

RAZ-S - Universal front door lock for RACK cabinets of RS / ZRS types.

RAS4 - Set of four M6 screws is intended for mounting devices inside RACK standard enclosure in RACK cabinets.

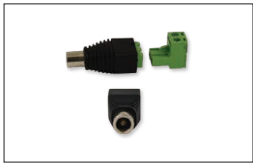


Sample product:
RAZ-S

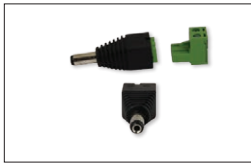
Code	Dimensions [+/- 2mm]
RAZ25	D=29
RAZB16	D=13
RAZ-D	D=26
RAZ-S	34×140×30
RAS4	M6×12

Other accessories

Connectors



ML108
Reduction - CABLE-OUTLET DC 5.5/2.1



ML109
Reduction - CABLE-PLUG DC 5.5/2.1



ML120
Reduction - CABLE-OUTLET DC 5.5/2.1/N



ML121
Reduction - CABLE-PLUG DC 5.5/2.1/N



ML517
Power adapter for HIKVISION DVR (DIN 4 pin/ 5.5/2.1 socket)



GF-GF
GF-GF Transition socket F - socket F (professional)



GF-GF-K
GF-GF double F type adapter (professional), keystone



RJ45/5U-K
RJ45 modular connector, cat. 5e, UTP (keystone)



SC/APC-1SM
APC-1SM fiber optic adapter - single mode



SC/APC-2SM
APC-2SM fiber optic adapter - single mode

Cables



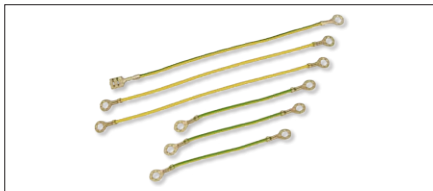
PSD13
Cable 230VAC 3x0.75mm², 2m, CEE 7/7 (EF), IEC C13 angled plug



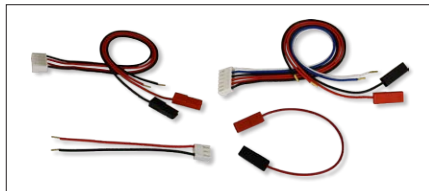
SP4
Splitter 4 DC 5.5/2.1



SP8
Splitter 8 DC 5.5/2.1



PKAZ040
Set of grounding cables to enclosures



PKAZ041
Set of wires dedicated to power supplies PSC series of Mean Well

Tampers



ML101
TAMPER S



PKAZ066
Tamper switch detachment from surface 8mm with wires



PKAZ067
Tamper switch detachment from surface 14mm with wires

Locks



MR008
Lock, type 802 - various code



MR027
Lock, type 876 - repeatable code



MR045
Lock, type B254 - repeatable code



MR009
Raw key (for MR008 / MR027)



MR042
Key 9081 (for MR027)

Other accessories

Bracket DIN



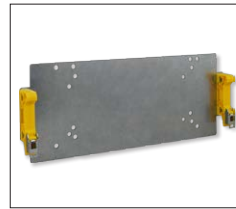
DIN1
DIN holder for power supply units and transformers



DIN2
DIN holder for power supply units and transformers



DIN3
DIN holder for power supply units



DIN4
DIN holder for power supply units



PKAZ107
Mounting kit for DIN rail

Mounting plate



BM1
Mounting plate BM1



BM2
Mounting plate BM2

Mounting elements



ML146
Cable glands M12x1.25



ML147
Cable glands M16x1.5



ML145
Cable glands M20x1.5



ARAP16P
Cable gland fi 16mm



ARAP21P
Cable gland fi 21mm



MM064
Cable protection conduit fi 6



MM019
Cable protection conduit fi 16



MM020
Cable protection conduit fi 21



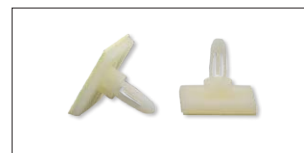
RAS4
Screw set RACK 4 pcs.



OZB2 / OZB3 / OZB4
Pole mount bracket



PW100
Mounting pin Ø6



MM054
Adhesive pin spacer
Ø6 - LCBSB-4-01-ART

Others



ML062
Angle muff 6,3/KK45-0,8-5,1



ARAW45
Fan with temperature sensor 45°C



PKAZ168
Set for optical indication



ZPR
Set of two straps for mounting recorder

Enclosed power supply units



Power supply units for DIN rail



Buffer power supply units



Power supply units for DIN rail - buffer



Power supplies for LED lighting



DC/AC inverters

- with full sinusoid
- with full sinusoid and UPS function
- with modified sinusoid
- input voltage $U_{IN} = 12VDC / 24VDC / 48VDC$
- output voltage $U_{OUT} = 110VAC / 230VAC$



DC/DC converters



Battery chargers



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