

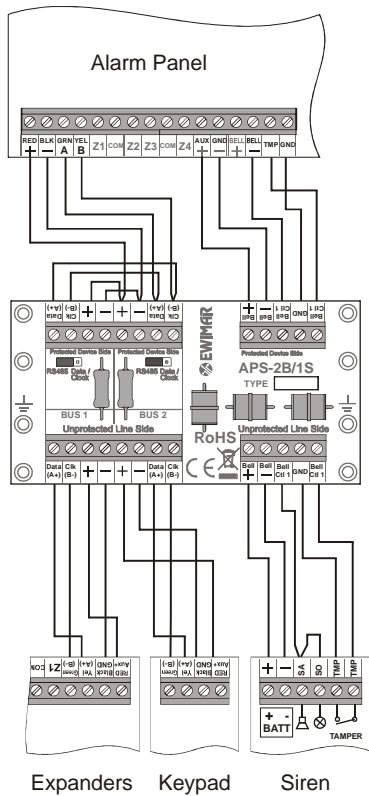
# PROTECTION AND INSTALLATION SYSTEMS FOR INTRUDER & BURGLAR ALARMS, LAN, CCTV AND INDUSTRIAL AUTOMATION

**2023**   PRICELIST OF PRODUCTS

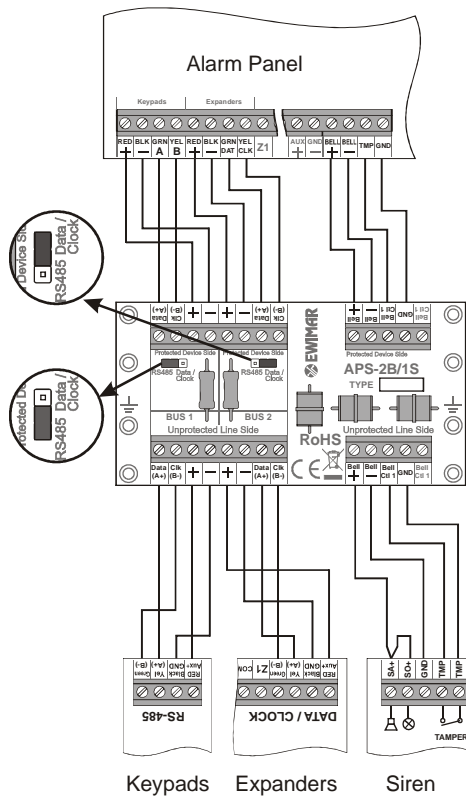


Polish products

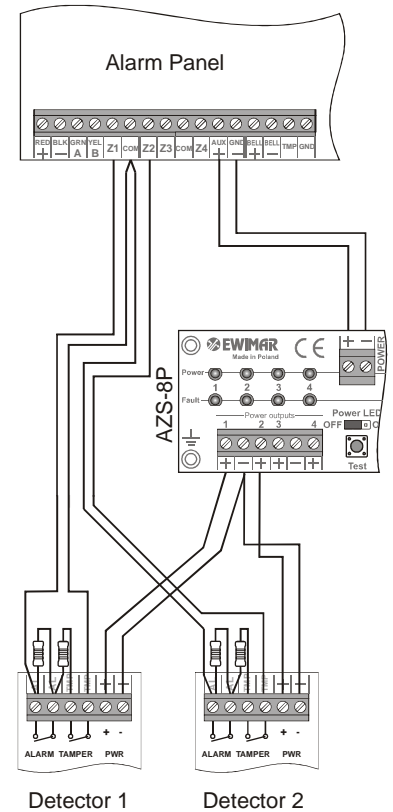
## Diagrams of protectors in an alarm system



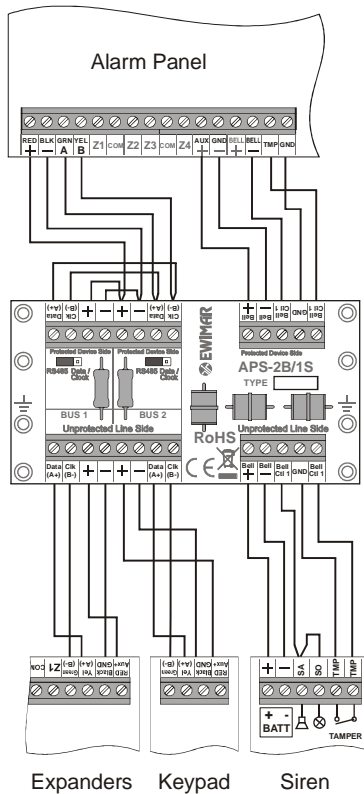
Protection for 2 buses and a siren with its own power supply



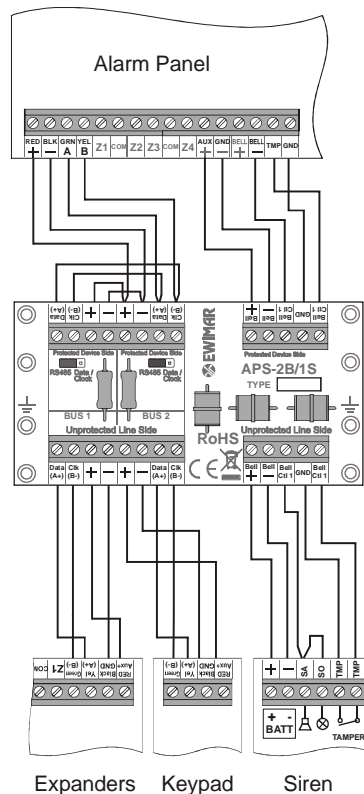
Protection for 2 buses and a siren with its own power supply



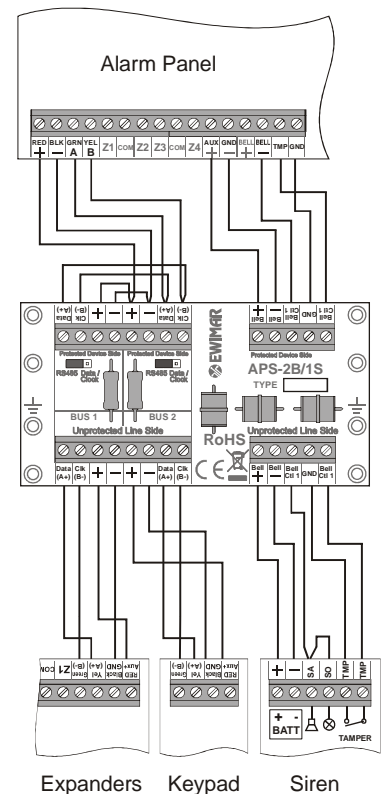
Separation of 8 power supply lines alarm detectors



Protection of 8 alarm lines of internal detectors and common power supply

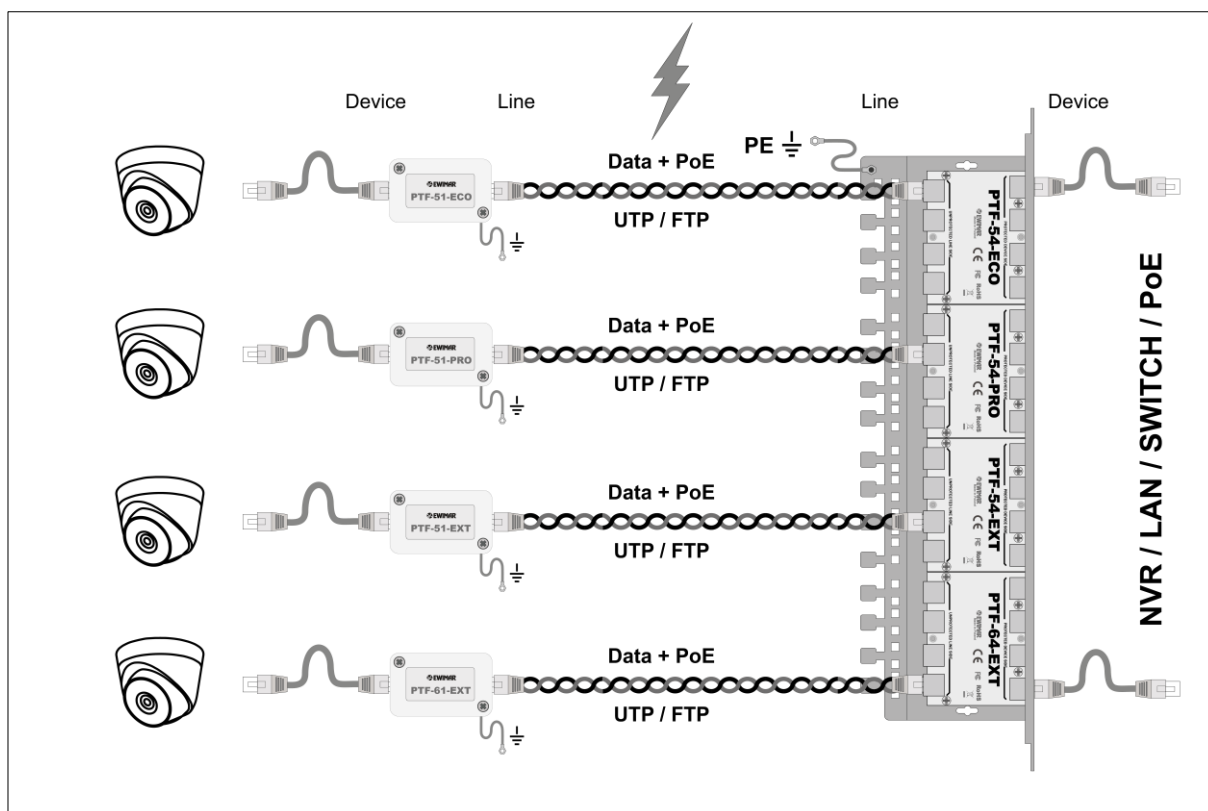


Protection of 8 alarm lines of indoor detectors with power separation



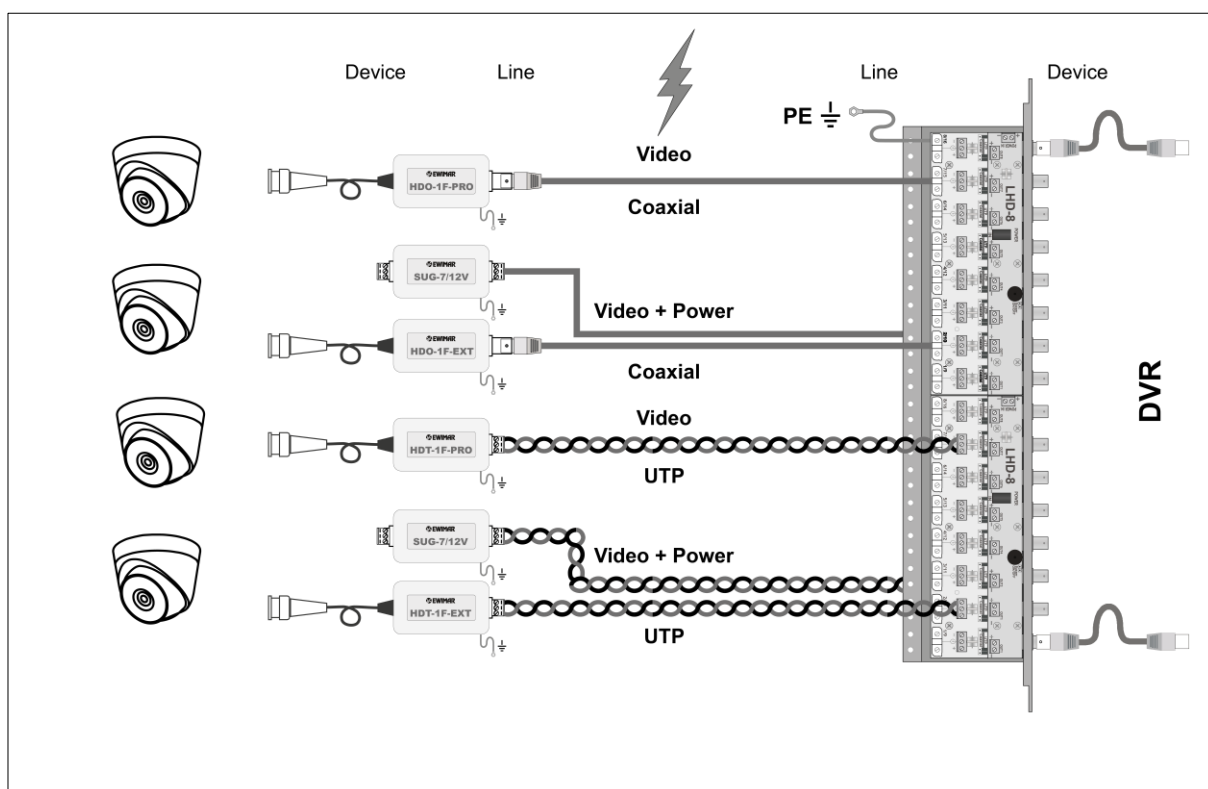
Protection of 4 external detector alarm lines and 4 power supply lines

## An example of a properly secured LAN installation



**Maximum protection is achieved by installing arresters at both ends of the line**

## An example of a properly secured AHD, CVI, TVI installation



**Maximum protection is achieved by installing arresters at both ends of the line**








The price list is effective from 01.02.2023. This price list, as of the date of issue, supersedes and cancels other editions and is valid until the next edition comes into force. The given prices are net retail prices.

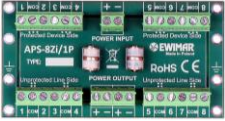


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# SURGE ARRESTERS FOR BURGLARY ALARM SYSTEMS

|   |  |   |
|---|--|---|
| <p><b><u>APS-1Zo/1P</u></b></p>      | <p style="text-align: center;"><b>Alarm line surge arrester with power supply</b></p> <ul style="list-style-type: none"> <li>• Highest efficiency thanks to MOSFET technology</li> <li>• Protection of 1 external alarm line</li> <li>• Power protection</li> <li>• Protection efficiency 10kA @ 8/20 <math>\mu</math>s - for each conductor</li> <li>• Compatible with all alarm control panels</li> <li>• Removable screw connections</li> <li>• Dimensions: 74 x 32 x 25 (mm)</li> </ul>  | <p style="text-align: right;">€ 20,24</p> |
| <p><b><u>APS-1Zo/1P/DIN</u></b></p>  | <p style="text-align: center;"><b>Alarm line surge arrester with power supply for DIN rail</b></p> <ul style="list-style-type: none"> <li>• Highest efficiency thanks to MOSFET technology</li> <li>• Protection of 1 external alarm line</li> <li>• Power protection</li> <li>• Protection efficiency 10kA @ 8/20 <math>\mu</math>s - for each conductor</li> <li>• Compatible with all alarm control panels</li> <li>• High quality screw connections</li> <li>• Mounting: DIN rail</li> <li>• Dimensions: 18 x 90 x 59 (mm)</li> </ul>  | <p style="text-align: right;">€ 29,76</p> |
| <p><b><u>APS-2B/1S</u></b></p>      | <p style="text-align: center;"><b>Surge arrester for two buses and signaling device (siren)</b></p> <ul style="list-style-type: none"> <li>• Highest efficiency thanks to MOSFET technology</li> <li>• Protection of 2 data / clock or RS-485 communication buses</li> <li>• Protection of siren control power supply</li> <li>• Protection efficiency bus 2kA @ 8/20 <math>\mu</math>s - for each conductor</li> <li>• Protection efficiency power 10kA @ 8/20 <math>\mu</math>s - for each conductor</li> <li>• Compatible with all alarm control panels</li> <li>• High quality screw connections</li> <li>• Mounting: APS-BOX-4 housing</li> <li>• Dimensions: 102 x 52 x 25 (mm)</li> </ul> | <p style="text-align: right;">€ 45,00</p> |
| <p><b><u>AZS-8P</u></b></p>        | <p style="text-align: center;"><b>Power supply separator for eight supply lines</b></p> <ul style="list-style-type: none"> <li>• Highest efficiency thanks to MOSFET technology</li> <li>• Time to disconnect the power circuits ~ 1<math>\mu</math>s</li> <li>• Separation of 8 supply lines, short-circuit proof</li> <li>• Automatic power restoration</li> <li>• Signaling short circuit of each circuit</li> <li>• Power presence testing function</li> <li>• Compatible with all alarm control panels</li> <li>• High quality screw connections</li> <li>• Mounting: APS-BOX-4 housing</li> <li>• Dimensions: 102 x 46 x 20 (mm)</li> </ul>  | <p style="text-align: right;">€ 51,19</p> |
| <p><b><u>APS-8P</u></b></p>        | <p style="text-align: center;"><b>Surge arrester for eight power lines with power separation</b></p> <ul style="list-style-type: none"> <li>• Highest efficiency thanks to MOSFET technology</li> <li>• Time to disconnect the power circuits ~ 1<math>\mu</math>s</li> <li>• Protection of 8 supply lines for internal class S detectors</li> <li>• Protection efficiency 2kA @ 8/20 <math>\mu</math>s - for each conductor</li> <li>• Compatible with all alarm control panels</li> <li>• High quality screw connections</li> <li>• Mounting: APS-BOX-4 housing</li> <li>• Dimensions: 102 x 46 x 18 (mm)</li> </ul>   | <p style="text-align: right;">€ 75,95</p> |

|  |  |                |
|--|--|----------------|
| <p><b><u>APS-8Zi/1P</u></b></p>   | <p><b>Surge arrester for eight internal detectors and a power line</b></p> <ul style="list-style-type: none"> <li>• Highest efficiency thanks to MOSFET technology</li> <li>• Protection of 8 internal alarm lines</li> <li>• Common power circuit protection</li> <li>• Protection efficiency 2kA @ 8/20 <math>\mu</math>s - for each conductor</li> <li>• Compatible with all alarm control panels</li> <li>• High quality screw connections</li> <li>• Mounting: APS-BOX-4 housing</li> <li>• Dimensions: 102 x 54 x 20 (mm)</li> </ul>   | <p>€ 75,95</p> |
| <p><b><u>APS-4Zo/4P</u></b></p>   | <p><b>Surge arrester for four external detectors with power supply separation</b></p> <ul style="list-style-type: none"> <li>• Highest efficiency thanks to MOSFET technology</li> <li>• Protection of 4 external alarm lines</li> <li>• Protection of 4 power circuits</li> <li>• Protection efficiency 10kA @ 8/20 <math>\mu</math>s - for each conductor</li> <li>• Built-in power separators</li> <li>• Compatible with all alarm control panels</li> <li>• High quality screw connections</li> <li>• Mounting: APS-BOX-4 housing</li> <li>• Dimensions: 102 x 41 x 15 (mm)</li> </ul> | <p>€ 75,95</p> |
| <p><b>INSTALLATION ACCESSORIES</b></p>   |  |                |
| <p><b><u>APS-BOX-4</u></b></p>  | <p><b>Metal housing for APS and AZS protection modules</b></p> <ul style="list-style-type: none"> <li>• Allows installation of up to 4 modules (cascade)</li> <li>• Cover tamper protection</li> <li>• Compatible with APS and AZS modules</li> <li>• Convenient access for putting and connecting cables</li> <li>• Common grounding clamp</li> <li>• Mounting: wall</li> <li>• Dimensions: 250 x 140 x 54 (mm)</li> </ul>  | <p>€ 39,28</p> |

# SURGE ARRESTERS FOR GIGABIT ETHERNET / LAN / PoE / IP-CCTV

## 1-CHANNEL SURGE ARRESTERS

### PTF-61-ECO/PoE



#### **ECO series, 1-channel surge arrester with PoE protection for Gigabit Ethernet installations**

- Dedicated to 100Base-Tx, 1000Base-T networks
- Protection efficiency 100A, 8/20  $\mu$ s - for each conductor
- 1 level of surge protection (hybrid)
- Protecting PoE line - all standards up to 60W
- Compatibility with 5th and 6th category UTP, FTP cables
- Discharge to ground and shielded RJ45 sockets
- Standalone housing / screwed to the wall
- Dimensions: 65 x 30 x 40 (mm)
- Recommended for LAN devices mounted inside buildings
- 5 years manufacturer's warranty

€ 37,15

### PTF-61-EXT/PoE



#### **EXT series, 1-channel surge arrester with PoE protection for Gigabit Ethernet installations**

- Dedicated to 100Base-Tx, 1000Base-T / Tx networks
- Protection efficiency 2,5kA, 8/20  $\mu$ s - for each conductor
- 3 levels of surge protection (GDT, MOSFET, TVS)
- High durability and protection efficiency thanks to use of resettable superfast MOSFET fuses
- Protecting PoE line - all standards up to 60W
- Compatibility with 5th and 6th category UTP, FTP cables
- Discharge to ground and shielded RJ45 sockets
- Standalone housing / screwed to the wall
- Dimensions: 65 x 30 x 40 (mm)
- Recommended for LAN devices mounted outside buildings, on poles and masts
- 5 years manufacturer's warranty

€ 62,38

### PTF-61-ECO/PoE/DIN



#### **ECO series, 1-channel surge arrester with PoE protection for Gigabit Ethernet installations for DIN rail**

- Dedicated to 100Base-Tx, 1000Base-T networks
- Protection efficiency 100A, 8/20  $\mu$ s - for each conductor
- 1 level of surge protection (hybrid)
- Protecting PoE line - all standards up to 60W
- Compatibility with 5th and 6th category UTP, FTP cables
- Discharge to ground and shielded RJ45 sockets
- Standalone / DIN rail housing
- Grounded through a DIN rail / cable
- Dimensions: 65 x 30 x 40 (mm)
- Recommended for LAN devices mounted inside buildings
- 5 years manufacturer's warranty

€ 56,19

### PTF-61-EXT/PoE/DIN



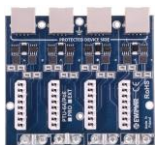
#### **EXT series, 1-channel surge arrester with PoE protection for Gigabit Ethernet installations for DIN rail**

- Dedicated to 100Base-Tx, 1000Base-T / Tx networks
- Protection efficiency 2,5kA, 8/20  $\mu$ s - for each conductor
- 3 levels of surge protection (GDT, MOSFET, TVS)
- High durability and protection efficiency thanks to use of resettable superfast MOSFET fuses
- Protecting PoE line - all standards up to 60W
- Compatibility with 5th and 6th category UTP, FTP cables
- Discharge to ground and shielded RJ45 sockets
- Standalone / DIN rail housing
- Grounded through a DIN rail / cable
- Dimensions: 65 x 30 x 40 (mm)
- Recommended for LAN devices mounted outside buildings, on poles and masts
- 5 years manufacturer's warranty

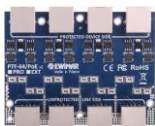
€ 80,72

## 4-CHANNEL SURGE ARRESTERS

### PTU-64-ECO/PoE



### PTF-64-ECO/PoE



#### **ECO series, 4-channel surge arrester module with PoE protection for Gigabit Ethernet installations**

- Dedicated to 100Base-Tx, 1000Base-T networks
- Protection of 4 LAN channels
- Protection of 4 PoE line channels - all standards up to 60W
- Protection efficiency 100A, 8/20  $\mu$ s - for each conductor
- 1 level of surge protection (hybrid)
- Compatibility with 5th and 6th category UTP, FTP cables
- Mounting: PTU/PTF-6-RACK, PTU/PTF-6-BOX or PTU/PTF-6-BOX-DIN housing
- Recommended for LAN devices mounted inside buildings
- Types of I/O connectors: PTU: LSA / RJ45 or PTF: RJ45 / RJ45
- 5 years manufacturer's warranty

€ 118,81

### PTU-64-EXT/PoE



### PTF-64-EXT/PoE



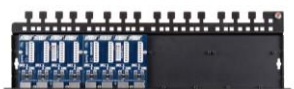
#### **EXT series, 4-channel surge arrester module with PoE protection for Gigabit Ethernet installations**

- Dedicated to 100Base-Tx, 1000Base-T / Tx networks
- Protection of 4 LAN channels
- Protection of 4 PoE channels - all standards up to 60W
- Protection efficiency 2,5kA, 8/20  $\mu$ s - for each conductor
- 3 levels of surge protection (GDT, MOSFET, TVS)
- High durability and protection efficiency thanks to use of resettable superfast MOSFET fuses
- Compatibility with 5th and 6th category UTP, FTP cables
- Mounting: PTU/PTF-6-RACK, PTU/PTF-6-BOX or PTU/PTF-6-BOX-DIN housing
- Recommended for LAN devices mounted outside buildings, on poles and masts
- Types of I/O connectors: PTU: LSA / RJ45 or PTF: RJ45 / RJ45
- 5 years manufacturer's warranty

€ 179,76

## 8-CHANNEL SURGE ARRESTERS

### PTU-68R-ECO/PoE



### PTF-68R-ECO/PoE



#### **ECO series, 8-channel surge arrester with PoE protection for Gigabit Ethernet installations**

- Dedicated to 100Base-Tx, 1000Base-T networks
- Protection of 8 LAN channels
- Protection of 8 PoE line channels - all standards up to 60W
- Protection efficiency 100A, 8/20  $\mu$ s - for each conductor
- 1 level of surge protection (hybrid)
- Compatibility with 5th and 6th category UTP, FTP cables
- Mounting: RACK 19", 1U height
- Recommended for LAN devices mounted inside buildings
- Types of I/O connectors: PTU: LSA / RJ45 or PTF: RJ45 / RJ45
- 5 years manufacturer's warranty

€ 281,43

### PTU-68R-EXT/PoE



### PTF-68R-EXT/PoE



#### **EXT series, 8-channel surge arrester with PoE protection for Gigabit Ethernet installations**

- Dedicated to 100Base-Tx, 1000Base-T / Tx networks
- Protection of 8 LAN channels
- Protection of 8 PoE channels - all standards up to 60W
- Protection efficiency 2,5kA, 8/20  $\mu$ s - for each conductor
- 3 levels of surge protection (GDT, MOSFET, TVS)
- High durability and protection efficiency thanks to use of resettable superfast MOSFET fuses
- Compatibility with 5th and 6th category UTP, FTP cables
- Mounting: RACK 19", 1U height
- Recommended for LAN devices mounted outside buildings, on poles and masts
- Types of I/O connectors: PTU: LSA / RJ45 or PTF: RJ45 / RJ45
- 5 years manufacturer's warranty

€ 403,57



## 16-CHANNEL SURGE ARRESTERS

|   |   |                 |
|---|---|-----------------|
| <p><a href="#"><u>PTU-616R-ECO/PoE</u></a></p>  <p><a href="#"><u>PTF-616R-ECO/PoE</u></a></p>  | <p><b>ECO series, 16-channel surge arrester with PoE protection for Gigabit Ethernet installations</b></p> <ul style="list-style-type: none"> <li>• Dedicated to 100Base-Tx, 1000Base-T networks</li> <li>• Protection of 16 LAN channels</li> <li>• Protection of 16 PoE line channels - all standards up to 60W</li> <li>• Protection efficiency 100A, 8/20 <math>\mu</math>s - for each conductor</li> <li>• 1 level of surge protection (hybrid)</li> <li>• Compatibility with 5th and 6th category UTP, FTP cables</li> <li>• Mounting: RACK 19", 1U height</li> <li>• Recommended for LAN devices mounted inside buildings</li> <li>• Types of I/O connectors: PTU: LSA / RJ45 or PTF: RJ45 / RJ45</li> <li>• 5 years manufacturer's warranty</li> </ul>  | <p>€ 519,05</p> |
| <p><a href="#"><u>PTU-616R-EXT/PoE</u></a></p>  <p><a href="#"><u>PTF-616R-EXT/PoE</u></a></p>  | <p><b>EXT series, 16-channel surge arrester with PoE protection for Gigabit Ethernet installations</b></p> <ul style="list-style-type: none"> <li>• Dedicated to 100Base-Tx, 1000Base-T / Tx networks</li> <li>• Protection of 16 LAN channels</li> <li>• Protection of 16 PoE channels - all standards up to 60W</li> <li>• Protection efficiency 2,5kA, 8/20 <math>\mu</math>s - for each conductor</li> <li>• 3 levels of surge protection (GDT, MOSFET, TVS)</li> <li>• High durability and protection efficiency thanks to use of resettable superfast MOSFET fuses</li> <li>• Compatibility with 5th and 6th category UTP, FTP cables</li> <li>• Mounting: RACK 19", 1U height</li> <li>• Recommended for LAN devices mounted outside buildings, on poles and masts</li> <li>• Types of I/O connectors: PTU: LSA / RJ45 or PTF: RJ45 / RJ45</li> <li>• 5 years manufacturer's warranty</li> </ul> | <p>€ 763,10</p> |
| <h2>INSTALLATION ACCESSORIES</h2>   |   |                 |
| <p><a href="#"><u>PTU/PTF-6-BOX</u></a></p>    | <p><b>Professional housing for PTU-64 / PTF-64 modules</b></p> <ul style="list-style-type: none"> <li>• Compatible with 4-channel PTU / PTF-64 series</li> <li>• Housing for one 4-channel module</li> <li>• Standalone housing / screwed to the wall</li> <li>• Grounding through cable</li> <li>• Dimensions: 184 x 104 x 48 (mm)</li> <li>• 5 years manufacturer's warranty</li> </ul>   | <p>€ 22,62</p>  |
| <p><a href="#"><u>PTU/PTF-6-BOX-DIN</u></a></p>    | <p><b>Professional housing for PTU-64 / PTF-64 modules for DIN rail</b></p> <ul style="list-style-type: none"> <li>• Compatible with 4-channel PTU / PTF-64 series</li> <li>• Housing for one 4-channel module</li> <li>• Standalone / DIN rail housing</li> <li>• Grounding through DIN rail / cable</li> <li>• Dimensions: 152 x 104 x 48 (mm)</li> <li>• 5 years manufacturer's warranty</li> </ul>  | <p>€ 28,33</p>  |
| <p><a href="#"><u>PTU/PTF-5/6-COVER</u></a></p>    | <p><b>Cover for PTU / PTF panels</b></p> <ul style="list-style-type: none"> <li>• Made of powder coated sheet</li> <li>• Fastening to the panel with screws</li> <li>• Intended for protection of PTU and PTF series in the RACK housing</li> <li>• Protects devices against dust, unauthorized access and damage</li> <li>• 5 years manufacturer's warranty</li> </ul>   | <p>€ 15,48</p>  |
| <p><a href="#"><u>PTU/PTF-6-RACK</u></a></p>   | <p><b>1U metal panel for 19" RACK cabinet for modular PTU / PTF-64 protection</b></p> <ul style="list-style-type: none"> <li>• Allows to design a panel with any configuration of PTU-64 and/or PTF-64 modules</li> <li>• Installation of 1 to 4 PTU-64 or PTF-64 modules</li> <li>• Safe and hassle-free screw assembly of modules</li> <li>• Grounding through cable</li> <li>• Mounting: RACK 19", 1U height</li> <li>• 5 years manufacturer's warranty</li> </ul>   | <p>€ 44,05</p>  |

# SURGE ARRESTERS FOR LAN / PoE / IP-CCTV

## 1-CHANNEL SURGE ARRESTERS

### [PTF-51-ENG/PoE/Micro](#)



#### **ENG series, 1-channel surge arrester with PoE protection for IP systems in a miniature housing**

- Dedicated for installations without grounding
- Protection efficiency 600A @ 8/20  $\mu$ s
- Compatibility with 10Base-T, 100Base-T networks
- 3 levels of surge protection (GDT, MOSFET, TVS)
- High durability and protection efficiency thanks to use of resettable superfast MOSFET fuses
- Protecting PoE line - all standards up to 60W
- Compatibility with 5th and 6th category UTP, FTP cables
- Dimensions: 56 x 31 x 27,5 (mm)

€ 29,76

To achieve full efficiency of the ENG series arrester, it is necessary to use minimum PRO or EXT series arrester on the other side of the cable.

### [PTF-51-ECO/PoE/Micro](#)



#### **ECO series, 1-channel surge arrester with PoE protection for IP systems in a miniature housing**

- Protection efficiency 100A, 8/20  $\mu$ s - for each conductor
- Compatibility with 10Base-T, 100Base-T networks
- 1 level of surge protection (hybrid)
- PoE line protection - all standards up to 60W
- Compatibility with 5th and 6th category UTP, FTP cables
- Discharge to ground
- Recommended for LAN devices mounted inside buildings
- Dimensions: 56 x 31 x 27,5 (mm)

€ 17,15

### [PTF-51-PRO/PoE/Micro](#)



#### **PRO series, 1-channel surge arrester with PoE protection for IP systems in a miniature housing**

- Protection efficiency 2,5kA, 8/20  $\mu$ s - for each conductor
- Compatibility with 10Base-T, 100Base-T networks
- 2 levels of surge protection (GDT, TVS)
- Protecting PoE line - all standards up to 60W
- Compatibility with 5th and 6th category UTP / FTP cables
- Grounding through cable
- Standalone housing
- Recommended for LAN devices mounted outside buildings
- Dimensions: 56 x 31 x 27,5 (mm)

€ 25,95

### [PTF-51-EXT/PoE/Micro](#)







#### **EXT series, 1-channel surge arrester with PoE protection for IP systems in a miniature housing**

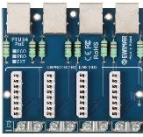
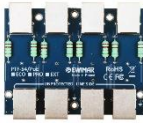
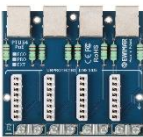

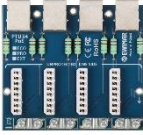
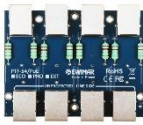

- Protection efficiency 2,5kA, 8/20  $\mu$ s - for each conductor
- Compatibility with 10Base-T, 100Base-T networks
- 3 levels of surge protection (GDT, MOSFET, TVS)
- High durability and protection efficiency thanks to use of resettable superfast MOSFET fuses
- Protecting PoE line - all standards up to 60W
- Compatibility with 5th and 6th category UTP / FTP cables
- Grounding through cable
- Standalone housing
- Recommended for LAN devices mounted outside buildings, on poles and masts
- Dimensions: 56 x 31 x 27,5 (mm)

€ 30,72

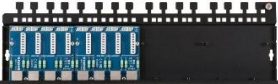
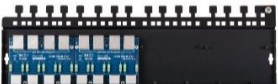



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|--|---|----------------|
| <p><a href="#"><u>PTF-51-ECO/PoE</u></a></p>        | <p><b>ECO series, 1-channel surge arrester with PoE protection for IP systems</b></p> <ul style="list-style-type: none"> <li>• Protection efficiency 100A, 8/20 <math>\mu</math>s - for each conductor</li> <li>• Compatibility with 10Base-T, 100Base-T networks</li> <li>• 1 level of surge protection (hybrid)</li> <li>• Protecting PoE line - all standards up to 60W</li> <li>• Compatibility with 5th and 6th category UTP / FTP cables</li> <li>• Shielded RJ45 sockets</li> <li>• Grounding through cable</li> <li>• Standalone housing / screwed to the wall</li> <li>• Recommended for LAN devices mounted inside buildings</li> <li>• Dimensions: 65 x 30 x 40 (mm)</li> </ul>  | <p>€ 18,10</p> |
| <p><a href="#"><u>PTF-51-PRO/PoE</u></a></p>        | <p><b>PRO series, 1-channel surge arrester with PoE protection for IP systems</b></p> <ul style="list-style-type: none"> <li>• Protection efficiency 2,5kA, 8/20 <math>\mu</math>s - for each conductor</li> <li>• Compatibility with 10Base-T, 100Base-T networks</li> <li>• 2 levels of surge protection (GDT, TVS)</li> <li>• Protecting PoE line - all standards up to 60W</li> <li>• Compatibility with 5th and 6th category UTP / FTP cables</li> <li>• Shielded RJ45 sockets</li> <li>• Grounding through cable</li> <li>• Standalone housing / screwed to the wall</li> <li>• Recommended for LAN devices mounted outside buildings</li> <li>• Dimensions: 65 x 30 x 40 (mm)</li> </ul>   | <p>€ 28,33</p> |
| <p><a href="#"><u>PTF-51-EXT/PoE</u></a></p>      | <p><b>EXT series, 1-channel surge arrester with PoE protection for IP systems</b></p> <ul style="list-style-type: none"> <li>• Protection efficiency 2,5kA, 8/20 <math>\mu</math>s - for each conductor</li> <li>• Compatibility with 10Base-T, 100Base-T networks</li> <li>• 3 levels of surge protection (GDT, MOSFET, TVS)</li> <li>• High durability and protection efficiency thanks to use of resettable superfast MOSFET fuses</li> <li>• Protecting PoE line - all standards up to 60W</li> <li>• Compatibility with 5th and 6th category UTP / FTP cables</li> <li>• Shielded RJ45 sockets</li> <li>• Grounding through cable</li> <li>• Standalone housing / screwed to the wall</li> <li>• Recommended for LAN devices mounted outside buildings, on poles and masts</li> <li>• Dimensions: 65 x 30 x 40 (mm)</li> </ul> | <p>€ 35,48</p> |
| <p><a href="#"><u>PTF-51-ECO/PoE/DIN</u></a></p>  | <p><b>ECO series, 1-channel surge arrester with PoE protection for IP systems for DIN rail</b></p> <ul style="list-style-type: none"> <li>• Protection efficiency 100A, 8/20 <math>\mu</math>s - for each conductor</li> <li>• Compatibility with 10Base-T, 100Base-T networks</li> <li>• 1 level of surge protection (hybrid)</li> <li>• Protecting PoE line - all standards up to 60W</li> <li>• Compatibility with 5th and 6th category UTP / FTP cables</li> <li>• Shielded RJ45 sockets</li> <li>• Standalone / DIN rail housing</li> <li>• Grounding through DIN rail / cable</li> <li>• Recommended for LAN devices mounted inside buildings</li> <li>• Dimensions: 65 x 30 x 40 (mm)</li> </ul>   | <p>€ 38,10</p> |
| <p><a href="#"><u>PTF-51-PRO/PoE/DIN</u></a></p>  | <p><b>PRO series, 1-channel surge arrester with PoE protection for IP systems for DIN rail</b></p> <ul style="list-style-type: none"> <li>• Protection efficiency 2,5kA, 8/20 <math>\mu</math>s - for each conductor</li> <li>• Compatibility with 10Base-T, 100Base-T networks</li> <li>• 2 levels of surge protection (GDT, TVS)</li> <li>• Protecting PoE line - all standards up to 60W</li> <li>• Compatibility with 5th and 6th category UTP / FTP cables</li> <li>• Shielded RJ45 sockets</li> <li>• Standalone / DIN rail housing</li> <li>• Grounding through DIN rail / cable</li> <li>• Recommended for LAN devices mounted outside buildings</li> <li>• Dimensions: 65 x 30 x 40 (mm)</li> </ul>  | <p>€ 46,43</p> |

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| <p><b><u>PTF-51-EXT/PoE/DIN</u></b></p>       | <p><b>EXT series, 1-channel surge arrester with PoE protection for IP systems for DIN rail</b></p> <ul style="list-style-type: none"> <li>• Protection efficiency 2,5kA, 8/20 <math>\mu</math>s - for each conductor</li> <li>• Compatibility with 10Base-T, 100Base-T networks</li> <li>• 3 levels of surge protection (GDT, MOSFET, TVS)</li> <li>• High durability and protection efficiency thanks to use of resettable superfast MOSFET fuses</li> <li>• Protecting PoE line - all standards up to 60W</li> <li>• Compatibility with 5th and 6th category UTP / FTP cables</li> <li>• Shielded RJ45 sockets</li> <li>• Standalone / DIN rail housing</li> <li>• Grounding through DIN rail / cable</li> <li>• Recommended for LAN devices mounted outside buildings, on poles and masts</li> <li>• Dimensions: 65 x 30 x 40 (mm)</li> </ul>   | <p>€ 53,57</p> |
| <p><b><u>BOX-PTU-51-EXT/PoE/MINI</u></b></p>  | <p><b>EXT series, 1-channel external surge arrester with PoE protection for IP systems.</b></p> <ul style="list-style-type: none"> <li>• Protection efficiency 5kA, 8/20 <math>\mu</math>s - for each conductor</li> <li>• Compatibility with 10Base-T, 100Base-T networks</li> <li>• 3 levels of surge protection (GDT, MOSFET, TVS)</li> <li>• High durability and protection efficiency thanks to use of resettable superfast MOSFET fuses</li> <li>• Protecting PoE line - all standards up to 60W</li> <li>• Compatibility with 5th and 6th category UTP / FTP cables</li> <li>• Shielded RJ45 sockets</li> <li>• Grounding through cable</li> <li>• Standalone housing / screwed to the wall</li> <li>• Can be mounted on a wall or U-BOX pole bracket</li> <li>• Hermetic casing with protection class IP65</li> <li>• Recommended for LAN devices mounted outside buildings, on poles and masts</li> <li>• Dimensions 90 x 75 x 41 mm</li> <li>• Types of input connectors: LSA; output: LSA</li> </ul>                              | <p>€ 54,76</p> |
| <p><b><u>BOX-1-PTF-51-EXT/PoE</u></b></p>   | <p><b>EXT series, 1-channel external surge arrester with PoE protection for IP systems.</b></p> <ul style="list-style-type: none"> <li>• Protection efficiency 5kA, 8/20 <math>\mu</math>s - for each conductor</li> <li>• Compatibility with 10Base-T, 100Base-T networks</li> <li>• 3 levels of surge protection (GDT, MOSFET, TVS)</li> <li>• High durability and protection efficiency thanks to use of resettable superfast MOSFET fuses</li> <li>• Protecting PoE line - all standards up to 60W</li> <li>• Compatibility with 5th and 6th category UTP / FTP cables</li> <li>• Shielded RJ45 sockets</li> <li>• Grounding through cable</li> <li>• Standalone housing / screwed to the wall</li> <li>• Can be mounted on a wall or U-BOX pole bracket</li> <li>• Hermetic casing with protection class IP65</li> <li>• Recommended for LAN devices mounted outside buildings, on poles and masts</li> <li>• Dimensions: 114 x 114 x 57 mm</li> <li>• Types of input connectors: LSA; output: LSA / RJ45 + patchcord RJ45</li> </ul>   | <p>€ 64,05</p> |
| <p><b><u>BOX-2-PTF-51-EXT/PoE</u></b></p>   | <p><b>EXT series, 1-channel external surge arrester with PoE protection for IP systems.</b></p> <ul style="list-style-type: none"> <li>• Protection efficiency 5kA, 8/20 <math>\mu</math>s - for each conductor</li> <li>• Compatibility with 10Base-T, 100Base-T networks</li> <li>• 3 levels of surge protection (GDT, MOSFET, TVS)</li> <li>• High durability and protection efficiency thanks to use of resettable superfast MOSFET fuses</li> <li>• Protecting PoE line - all standards up to 60W</li> <li>• Compatibility with 5th and 6th category UTP / FTP cables</li> <li>• Shielded RJ45 sockets</li> <li>• Grounding through cable</li> <li>• Standalone housing / screwed to the wall</li> <li>• Can be mounted on a wall or U-BOX pole bracket</li> <li>• Hermetic casing with protection class IP65</li> <li>• Recommended for LAN devices mounted outside buildings, on poles and masts</li> <li>• Dimensions: 151 x 117 x 67 (mm)</li> <li>• Types of input connectors: LSA; output: LSA / RJ45 + patchcord RJ45</li> </ul> | <p>€ 70,48</p> |

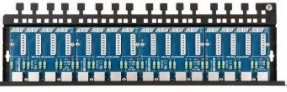

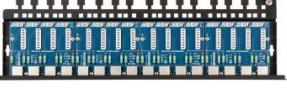

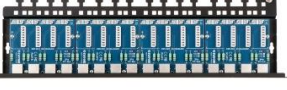




| 4-CHANNEL SURGE ARRESTERS   |  |                 |
|---|--|-----------------|
| <p><a href="#"><u>PTU-54-ECO/PoE</u></a></p>  <p><a href="#"><u>PTF-54-ECO/PoE</u></a></p>      | <p><b>ECO series, 4-channel surge arrester module with PoE protection for IP systems</b></p> <ul style="list-style-type: none"> <li>• Protection of 4 LAN channels</li> <li>• Compatibility with 10Base-T, 100Base-T networks</li> <li>• Protection of 4 PoE channels - all standards up to 60W</li> <li>• Protection efficiency 100A, 8/20 <math>\mu</math>s - for each conductor</li> <li>• 1 level of surge protection (hybrid)</li> <li>• Compatibility with 5th and 6th category UTP / FTP cables</li> <li>• Mounting: PTU/PTF-5-RACK, PTU/PTF-5-BOX or PTU/PTF-5-BOX-DIN housing</li> <li>• Recommended for LAN devices mounted inside buildings</li> <li>• Types of I/O connectors: PTU: LSA / RJ45 or PTF: RJ45 / RJ45</li> </ul>  | <p>€ 48,81</p>  |
| <p><a href="#"><u>PTU-54-PRO/PoE</u></a></p>  <p><a href="#"><u>PTF-54-PRO/PoE</u></a></p>     | <p><b>PRO series, 4-channel surge arrester module with PoE protection for IP systems</b></p> <ul style="list-style-type: none"> <li>• Protection of 4 LAN channels</li> <li>• Compatibility with 10Base-T, 100Base-T networks</li> <li>• Protection of 4 PoE channels - all standards up to 60W</li> <li>• Protection efficiency 2,5kA, 8/20 <math>\mu</math>s - for each conductor</li> <li>• 2 levels of surge protection (GDT, TVS)</li> <li>• Compatibility with 5th and 6th category UTP / FTP cables</li> <li>• Mounting: PTU/PTF-5-RACK, PTU/PTF-5-BOX or PTU/PTF-5-BOX-DIN housing</li> <li>• Recommended for LAN devices mounted outside buildings</li> <li>• Types of I/O connectors: PTU: LSA / RJ45 or PTF: RJ45 / RJ45</li> </ul>   | <p>€ 63,10</p>  |
| <p><a href="#"><u>PTU-54-EXT/PoE</u></a></p>  <p><a href="#"><u>PTF-54-EXT/PoE</u></a></p>  | <p><b>EXT series, 4-channel surge arrester module with PoE protection for IP systems</b></p> <ul style="list-style-type: none"> <li>• Protection of 4 LAN channels</li> <li>• Compatibility with 10Base-T, 100Base-T networks</li> <li>• Protection of 4 PoE channels - all standards up to 60W</li> <li>• High durability and protection efficiency thanks to use of resettable superfast MOSFET fuses</li> <li>• Protection efficiency 2,5kA, 8/20 <math>\mu</math>s - for each conductor</li> <li>• 3 levels of surge protection (GDT, MOSFET, TVS)</li> <li>• Compatibility with 5th and 6th category UTP / FTP cables</li> <li>• Mounting: PTU/PTF-5-RACK, PTU/PTF-5-BOX or PTU/PTF-5-BOX-DIN housing</li> <li>• Recommended for LAN devices mounted outside buildings, on poles and masts</li> <li>• Types of I/O connectors: PTU: LSA / RJ45 or PTF: RJ45 / RJ45</li> </ul> | <p>€ 103,57</p> |
| 4-CHANNEL SURGE ARRESTERS WITH PoE INJECTOR   |  |                 |
| <p><a href="#"><u>PTF-54-ECO/InPoE/P</u></a></p>   | <p><b>ECO series, 4-channel surge arrester module with PoE injector for IP systems</b></p> <ul style="list-style-type: none"> <li>• Protection of 4 LAN channels</li> <li>• Compatibility with 10Base-T, 100Base-T networks</li> <li>• Protection of PoE circuits</li> <li>• Passive PoE input, up to 15W / channel</li> <li>• Protection efficiency 100A, 8/20 <math>\mu</math>s - for each conductor</li> <li>• 1 level of surge protection (hybrid)</li> <li>• Compatibility with 5th and 6th category UTP / FTP cables</li> <li>• Mounting: PTU/PTF-5-RACK, PTU/PTF-5-BOX or PTU/PTF-5-BOX-DIN housing</li> <li>• Recommended for LAN devices mounted inside buildings</li> <li>• Types of I/O connectors: RJ45 / RJ45</li> </ul>  | <p>€ 57,15</p>  |







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| <p><a href="#"><u>PTF-54-PRO/InPoE/P</u></a></p>   | <p><b>PRO series, 4-channel surge arrester module with PoE injector for IP systems</b></p> <ul style="list-style-type: none"> <li>• Protection of 4 LAN channels</li> <li>• Compatibility with 10Base-T, 100Base-T networks</li> <li>• Protection of PoE circuits</li> <li>• Passive PoE input, up to 15W / channel</li> <li>• Protection efficiency 2kA, 8/20 <math>\mu</math>s - for each conductor</li> <li>• 2 levels of surge protection (GDT, TVS)</li> <li>• Compatibility with 5th and 6th category UTP / FTP cables</li> <li>• Mounting: PTU/PTF-5-RACK, PTU/PTF-5-BOX or PTU/PTF-5-BOX-DIN housing</li> <li>• Recommended for LAN devices mounted outside buildings</li> <li>• Types of I/O connectors: RJ45 / RJ45</li> </ul>   | <p>€ 72,62</p>  |
| <p><a href="#"><u>PTF-54-EXT/InPoE/P</u></a></p>   | <p><b>EXT series, 4-channel surge arrester module with PoE injector for IP systems</b></p> <ul style="list-style-type: none"> <li>• Protection of 4 LAN channels</li> <li>• Compatibility with 10Base-T, 100Base-T networks</li> <li>• Protection of PoE circuits</li> <li>• High durability and protection efficiency thanks to use of resettable superfast MOSFET fuses</li> <li>• Passive PoE input, up to 15W / channel</li> <li>• Protection efficiency 2kA, 8/20 <math>\mu</math>s - for each conductor</li> <li>• 3 levels of surge protection (GDT, MOSFET, TVS)</li> <li>• Compatibility with 5th and 6th category UTP / FTP cables</li> <li>• Mounting: PTU/PTF-5-RACK, PTU/PTF-5-BOX or PTU/PTF-5-BOX-DIN housing</li> <li>• Recommended for LAN devices mounted outside buildings, on poles and masts</li> <li>• Types of I/O connectors: RJ45 / RJ45</li> </ul> | <p>€ 113,10</p> |
| <p><b>8-CHANNEL SURGE ARRESTERS</b></p>   |  |                 |
| <p><a href="#"><u>PTU-58R-ECO/PoE</u></a></p>  <p><a href="#"><u>PTF-58R-ECO/PoE</u></a></p>  | <p><b>ECO series, 8-channel surge arrester with PoE protection for IP systems</b></p> <ul style="list-style-type: none"> <li>• Protection of 8 LAN channels</li> <li>• Compatibility with 10Base-T, 100Base-T networks</li> <li>• Protection of 8 PoE channels - all standards up to 60W</li> <li>• Protection efficiency 100A, 8/20 <math>\mu</math>s - for each conductor</li> <li>• 1 level of surge protection (hybrid)</li> <li>• Compatibility with 5th and 6th category UTP / FTP cables</li> <li>• Mounting: RACK 19", 1U height</li> <li>• It can be mounted on the wall</li> <li>• Recommended for LAN devices mounted inside buildings</li> <li>• Types of I/O connectors: PTU: LSA / RJ45 or PTF: RJ45 / RJ45</li> </ul>   | <p>€ 140,24</p> |
| <p><a href="#"><u>PTU-58R-PRO/PoE</u></a></p>  <p><a href="#"><u>PTF-58R-PRO/PoE</u></a></p>  | <p><b>PRO series, 8-channel surge arrester with PoE protection for IP systems</b></p> <ul style="list-style-type: none"> <li>• Protection of 8 LAN channels</li> <li>• Compatibility with 10Base-T, 100Base-T networks</li> <li>• Protection of 8 PoE channels - all standards up to 60W</li> <li>• Protection efficiency 2,5kA, 8/20 <math>\mu</math>s - for each conductor</li> <li>• 2 levels of surge protection (GDT, TVS)</li> <li>• Compatibility with 5th and 6th category UTP / FTP cables</li> <li>• Mounting: RACK 19", 1U height</li> <li>• It can be mounted on the wall</li> <li>• Recommended for LAN devices mounted outside buildings</li> <li>• Types of I/O connectors: PTU: LSA / RJ45 or PTF: RJ45 / RJ45</li> </ul>  | <p>€ 170,24</p> |








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|---|---|-----------------|
| <p><a href="#"><u>PTU-58R-EXT/PoE</u></a></p>  <p><a href="#"><u>PTF-58R-EXT/PoE</u></a></p>  | <p><b>EXT series, 8-channel surge arrester with PoE protection for IP systems</b></p> <ul style="list-style-type: none"> <li>• Protection of 8 LAN channels</li> <li>• Compatibility with 10Base-T, 100Base-T networks</li> <li>• Protection of 8 PoE channels - all standards up to 60W</li> <li>• High durability and protection efficiency thanks to use of resettable superfast MOSFET fuses</li> <li>• Protection efficiency 2,5kA, 8/20 <math>\mu</math>s - for each conductor</li> <li>• 3 levels of surge protection (GDT, MOSFET, TVS)</li> <li>• Compatibility with 5th and 6th category UTP / FTP cables</li> <li>• Mounting: RACK 19", 1U height</li> <li>• It can be mounted on the wall</li> <li>• Recommended for LAN devices mounted outside buildings, on poles and masts</li> <li>• Types of I/O connectors: PTU: LSA / RJ45 or PTF: RJ45 / RJ45</li> </ul> | <p>€ 251,19</p> |
| <p><b>8-CHANNEL SURGE ARRESTERS WITH PoE INJECTOR</b></p>   |   |                 |
| <p><a href="#"><u>PTU-58R-ECO/InPoE/P</u></a></p>    | <p><b>ECO series, 8-channel surge arrester with PoE injector for IP systems</b></p> <ul style="list-style-type: none"> <li>• Protection of 8 LAN channels</li> <li>• Compatibility with 10Base-T, 100Base-T networks</li> <li>• Protection of PoE circuits</li> <li>• Passive PoE input, up to 15W / channel</li> <li>• Protection efficiency 100A, 8/20 <math>\mu</math>s - for each conductor</li> <li>• 1 level of surge protection (hybrid)</li> <li>• Compatibility with 5th and 6th category UTP / FTP cables</li> <li>• Mounting: RACK 19", 1U height</li> <li>• It can be mounted on the wall</li> <li>• Recommended for LAN devices mounted inside buildings</li> <li>• Types of I/O connectors: RJ45 / RJ45</li> </ul>  | <p>€ 158,33</p> |
| <p><a href="#"><u>PTF-58R-PRO/InPoE/P</u></a></p>    | <p><b>PRO series, 8-channel surge arrester with PoE injector for IP systems</b></p> <ul style="list-style-type: none"> <li>• Protection of 8 LAN channels</li> <li>• Compatibility with 10Base-T, 100Base-T networks</li> <li>• Protection of PoE circuits</li> <li>• Passive PoE input, up to 15W / channel</li> <li>• Protection efficiency 2kA, 8/20 <math>\mu</math>s - for each conductor</li> <li>• 2 levels of surge protection (GDT, TVS)</li> <li>• Compatibility with 5th and 6th category UTP / FTP cables</li> <li>• Mounting: RACK 19", 1U height</li> <li>• It can be mounted on the wall</li> <li>• Recommended for LAN devices mounted outside buildings</li> <li>• Types of I/O connectors: for PTF version: RJ45 / RJ45</li> </ul>  | <p>€ 189,29</p> |
| <p><a href="#"><u>PTF-58R-EXT/InPoE/P</u></a></p>    | <p><b>EXT series, 8-channel surge arrester with PoE injector for IP systems</b></p> <ul style="list-style-type: none"> <li>• Protection of 8 LAN channels</li> <li>• Compatibility with 10Base-T, 100Base-T networks</li> <li>• Protection of PoE circuits</li> <li>• Passive PoE input, up to 15W / channel</li> <li>• High durability and protection efficiency thanks to use of resettable superfast MOSFET fuses</li> <li>• Protection efficiency 2kA, 8/20 <math>\mu</math>s - for each conductor</li> <li>• 3 levels of surge protection (GDT, MOSFET, TVS)</li> <li>• Compatibility with 5th and 6th category UTP / FTP cables</li> <li>• Mounting: RACK 19", 1U height</li> <li>• It can be mounted on the wall</li> <li>• Recommended for LAN devices mounted outside buildings, on poles and masts</li> <li>• Types of I/O connectors: RJ45 / RJ45</li> </ul>       | <p>€ 270,24</p> |

## 16-CHANNEL SURGE ARRESTERS



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| <p><a href="#"><u>PTU-516R-ECO/PoE</u></a></p>  <p><a href="#"><u>PTF-516R-ECO/PoE</u></a></p>      | <p><b>ECO series, 16-channel surge arrester with PoE protection for IP systems</b></p> <ul style="list-style-type: none"> <li>• Protection of 16 LAN channels</li> <li>• Compatibility with 10Base-T, 100Base-T networks</li> <li>• Protection of 16 PoE channels - all standards up to 60W</li> <li>• Protection efficiency 100A, 8/20 <math>\mu</math>s - for each conductor</li> <li>• 1 level of surge protection (hybrid)</li> <li>• Compatibility with 5th and 6th category UTP / FTP cables</li> <li>• Mounting: RACK 19", 1U height</li> <li>• It can be mounted on the wall</li> <li>• Recommended for LAN devices mounted inside buildings</li> <li>• Types of I/O connectors: PTU: LSA / RJ45 or PTF: RJ45 / RJ45</li> </ul>  | <p>€ 237,85</p> |
| <p><a href="#"><u>PTU-516R-PRO/PoE</u></a></p>  <p><a href="#"><u>PTF-516R-PRO/PoE</u></a></p>      | <p><b>PRO series, 16-channel surge arrester with PoE protection for IP systems</b></p> <ul style="list-style-type: none"> <li>• Protection of 16 LAN channels</li> <li>• Compatibility with 10Base-T, 100Base-T networks</li> <li>• Protection of 16 PoE channels - all standards up to 60W</li> <li>• Protection efficiency 2,5kA, 8/20 <math>\mu</math>s - for each conductor</li> <li>• 2 levels of surge protection (GDT, TVS)</li> <li>• Compatibility with 5th and 6th category UTP / FTP cables</li> <li>• Mounting: RACK 19", 1U height</li> <li>• It can be mounted on the wall</li> <li>• Recommended for LAN devices mounted outside buildings</li> <li>• Types of I/O connectors: PTU: LSA / RJ45 or PTF: RJ45 / RJ45</li> </ul>   | <p>€ 296,43</p> |
| <p><a href="#"><u>PTU-516R-EXT/PoE</u></a></p>  <p><a href="#"><u>PTF-516R-EXT/PoE</u></a></p>  | <p><b>EXT series, 16-channel surge arrester with PoE protection for IP systems</b></p> <ul style="list-style-type: none"> <li>• Protection of 16 LAN channels</li> <li>• Compatibility with 10Base-T, 100Base-T networks</li> <li>• Protection of 16 PoE channels - all standards up to 60W</li> <li>• High durability and protection efficiency thanks to use of resettable superfast MOSFET fuses</li> <li>• Protection efficiency 2,5kA, 8/20 <math>\mu</math>s - for each conductor</li> <li>• 3 levels of surge protection (GDT, MOSFET, TVS)</li> <li>• Compatibility with 5th and 6th category UTP / FTP cables</li> <li>• Mounting: RACK 19", 1U height</li> <li>• It can be mounted on the wall</li> <li>• Recommended for LAN devices mounted outside buildings, on poles and masts</li> <li>• Types of I/O connectors: PTU: LSA / RJ45 or PTF: RJ45 / RJ45</li> </ul> | <p>€ 458,33</p> |
| <h2>16-CHANNEL SURGE ARRESTERS WITH PoE INJECTOR</h2>   |  |                 |
| <p><a href="#"><u>PTF-516R-ECO/InPoE/P</u></a></p>   | <p><b>ECO series, 16-channel surge arrester with PoE injector for IP systems</b></p> <ul style="list-style-type: none"> <li>• Protection of 16 LAN channels</li> <li>• Compatibility with 10Base-T, 100Base-T networks</li> <li>• Protection of PoE circuits</li> <li>• Passive PoE input, up to 15W / channel</li> <li>• Protection efficiency 100A, 8/20 <math>\mu</math>s - for each conductor</li> <li>• 1 level of surge protection (hybrid)</li> <li>• Compatibility with 5th and 6th category UTP / FTP cables</li> <li>• Mounting: RACK 19", 1U height</li> <li>• It can be mounted on the wall</li> <li>• Recommended for LAN devices mounted inside buildings</li> <li>• Types of I/O connectors: RJ45 / RJ45</li> </ul>   | <p>€ 272,62</p> |



|  |   |                 |
|--|---|-----------------|
| <a href="#"><u>PTF-516R-PRO/InPoE/P</u></a><br><br> | <p><b>PRO series, 16-channel surge arrester with PoE injector for IP systems</b></p> <ul style="list-style-type: none"> <li>• Protection of 16 LAN channels</li> <li>• Compatibility with 10Base-T, 100Base-T networks</li> <li>• Protection of PoE circuits</li> <li>• Passive PoE input, up to 15W / channel</li> <li>• Protection efficiency 2kA, 8/20 <math>\mu</math>s - for each conductor</li> <li>• 2 levels of surge protection (GDT, TVS)</li> <li>• Compatibility with 5th and 6th category UTP / FTP cables</li> <li>• Mounting: RACK 19", 1U height</li> <li>• It can be mounted on the wall</li> <li>• Recommended for LAN devices mounted outside buildings</li> <li>• Types of I/O connectors: RJ45 / RJ45</li> </ul>   | <p>€ 334,52</p> |
| <a href="#"><u>PTF-516R-EXT/InPoE/P</u></a><br><br> | <p><b>EXT series, 16-channel surge arrester with PoE injector for IP systems</b></p> <ul style="list-style-type: none"> <li>• Protection of 16 LAN channels</li> <li>• Compatibility with 10Base-T, 100Base-T networks</li> <li>• Protection of PoE circuits</li> <li>• Passive PoE input, up to 15W / channel</li> <li>• High durability and protection efficiency thanks to use of resettable superfast MOSFET fuses</li> <li>• Protection efficiency 2kA, 8/20 <math>\mu</math>s - for each conductor</li> <li>• 3 levels of surge protection (GDT, MOSFET, TVS)</li> <li>• Compatibility with 5th and 6th category UTP / FTP cables</li> <li>• Mounting: RACK 19", 1U height</li> <li>• It can be mounted on the wall</li> <li>• Recommended for LAN devices mounted outside buildings, on poles and masts</li> <li>• Types of I/O connectors: RJ45 / RJ45</li> </ul> | <p>€ 496,43</p> |
| <p><b>INSTALLATION ACCESSORIES</b></p>   |   |                 |
| <a href="#"><u>U-BOX</u></a><br><br>              | <p><b>Pole mount for cameras and surge arresters</b></p> <ul style="list-style-type: none"> <li>• Bracket for mounting on cameras pole and security devices BOX-HD-1-EXT, BOX-PTU-51-EXT/PoE/MINI, BOX-1-PTF-51-EXT/PoE, BOX-2-PTF-51-EXT/PoE</li> <li>• The minimum diameter of 55 mm</li> <li>• Galvanized steel sheet protected with varnish</li> <li>• Cable ties included in diameter 130 - 150 (mm)</li> <li>• Compatible with cameras, including: Dahua, Hikvision, Novus</li> <li>• Dimensions: 150 x 230 x 55 (mm)</li> </ul>  | <p>€ 25,72</p>  |
| <a href="#"><u>BOX-1</u></a><br><br>              | <p><b>Junction box</b></p> <ul style="list-style-type: none"> <li>• IP66 rated</li> <li>• Waterproof, dustproof</li> <li>• The cover is easy to assemble</li> <li>• Compatible with U-BOX bracket</li> <li>• Dimensions: 114 x 114 x 57 (mm)</li> </ul>   | <p>€ 8,33</p>   |
| <a href="#"><u>BOX-2</u></a><br><br>              | <p><b>Junction box</b></p> <ul style="list-style-type: none"> <li>• IP66 rated</li> <li>• Waterproof, dustproof</li> <li>• The cover is easy to assemble</li> <li>• Compatible with U-BOX bracket</li> <li>• Dimensions: 151 x 117 x 67 (mm)</li> </ul>   | <p>€ 13,10</p>  |
| <a href="#"><u>BOX-3</u></a><br><br>              | <p><b>Junction box</b></p> <ul style="list-style-type: none"> <li>• IP66 rated</li> <li>• Waterproof, dustproof</li> <li>• The cover is easy to assemble</li> <li>• Compatible with U-BOX bracket</li> <li>• Dimensions: 190 x 150 x 77 (mm)</li> </ul>   | <p>€ 15,48</p>  |



|   |   |                               |
|---|---|-------------------------------|
| <a href="#"><u>BOX-3-DIN</u></a><br>           | <p align="center"><b>Junction box with DIN rail</b></p> <ul style="list-style-type: none"> <li>• IP66 rated</li> <li>• Waterproof, dustproof</li> <li>• The cover is easy to assemble</li> <li>• Compatible with U-BOX bracket</li> <li>• DIN rail included for mounting protection devices</li> <li>• Dimensions: 190 x 150 x 77 (mm)</li> </ul>   | <p align="center">€ 22,62</p> |
| <a href="#"><u>PTF-5-BOX</u></a><br>           | <p align="center"><b>Plastic housing for modular PTF-54 protection</b></p> <ul style="list-style-type: none"> <li>• Compatible with 4-channel PTF-54 protections</li> <li>• Housing for one 4-channel module</li> <li>• It protects the module against dust and damage</li> <li>• Standalone housing / screwed to the wall</li> <li>• Dimensions: 133 x 82 x 35 (mm)</li> </ul>   | <p align="center">€ 7,62</p>  |
| <a href="#"><u>PTU/PTF-5-BOX</u></a><br>       | <p align="center"><b>Professional housing for PTU-54 / PTF-54 modules</b></p> <ul style="list-style-type: none"> <li>• Compatible with 4-channel PTU / PTF-54 series</li> <li>• Housing for one 4-channel module</li> <li>• Standalone housing / screwed to the wall</li> <li>• Grounding through cable</li> <li>• Dimensions: 184 x 104 x 48 (mm)</li> </ul>   | <p align="center">€ 22,62</p> |
| <a href="#"><u>PTU/PTF-5-BOX-DIN</u></a><br>  | <p align="center"><b>Professional housing for PTU-54 / PTF-54 modules for DIN rail</b></p> <ul style="list-style-type: none"> <li>• Compatible with 4-channel PTU / PTF-54 series</li> <li>• Housing for one 4-channel module</li> <li>• Standalone / DIN rail housing</li> <li>• Grounding through DIN rail / cable</li> <li>• Dimensions: 152 x 104 x 48 (mm)</li> </ul>  | <p align="center">€ 28,33</p> |
| <a href="#"><u>LK-MOUNT</u></a><br>          | <p align="center"><b>Angle brackets for mounting panels in a RACK cabinet</b></p> <ul style="list-style-type: none"> <li>• Intended for patch panels and protection devices</li> <li>• It allows panels to be mounted at an angle of 45 degrees</li> <li>• Mounted in the back of the RACK</li> <li>• Right and left handle included</li> </ul>   | <p align="center">€ 15,48</p> |
| <a href="#"><u>PTU/PTF-5/6-COVER</u></a><br> | <p align="center"><b>Masking cover for PTU / PTF panels</b></p> <ul style="list-style-type: none"> <li>• Made of powder coated sheet</li> <li>• Fastening to the panel with screws</li> <li>• Designed for PTU and PTF series protection in a RACK housing</li> <li>• Protects devices against dust, unauthorized access and damage</li> </ul>  | <p align="center">€ 15,48</p> |
| <a href="#"><u>PTU/PTF-5-RACK</u></a><br>    | <p align="center"><b>1U metal panel for 19" RACK cabinet for modular PTU / PTF-54 protection</b></p> <ul style="list-style-type: none"> <li>• Allows to design a panel with any configuration of PTU-54 and/or PTF-54 modules</li> <li>• Installation of 1 to 4 PTU-54 or PTF-54 modules</li> <li>• Safe and trouble-free screw assembly of the modules</li> <li>• Grounding through cable</li> <li>• Grips for fixing cable ties</li> <li>• Mounting: RACK 19", 1U height</li> </ul> | <p align="center">€ 44,05</p> |






## WIRELESS AHD / HD-CVI / HD-TVI VIDEO TRANSMISSION

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|--|---|--|
| <a href="#"><u>AV-500-4HD</u></a><br>   | <b>Wireless video transmission kit for AHD, CVI, TVI, CVBS systems</b> <ul style="list-style-type: none"> <li>• Radio range up to 500m</li> <li>• Supported resolution 960H - 2Mpix</li> <li>• Support for AHD, CVI, TVI, CVBS formats</li> <li>• 2 or 4 radio channels</li> <li>• 5.8GHz operating frequency</li> <li>• Built-in video surge arresters with MOSFET technology</li> <li>• Built-in power surge arresters</li> <li>• Compatible with coaxial cable or UTP twisted pair</li> <li>• Easy camera connection</li> <li>• Comfortable wall and pole bracket</li> </ul>   | <p style="text-align: right;">€ 302,38</p> |
| <a href="#"><u>AV-500-4HD-L</u></a><br> | <b>Wireless video transmission kit for AHD, CVI, TVI, CVBS systems - designed for elevators</b> <ul style="list-style-type: none"> <li>• Radio range up to 150m inside the lift shaft</li> <li>• Supported resolution 960H - 2Mpix</li> <li>• Support for AHD, CVI, TVI, CVBS formats</li> <li>• 2 or 4 radio channels</li> <li>• 5.8GHz operating frequency</li> <li>• Built-in video surge arresters with MOSFET technology</li> <li>• Built-in power surge arresters</li> <li>• Compatible with coaxial cable or UTP twisted pair</li> <li>• Easy camera connection</li> </ul> | <p style="text-align: right;">€ 269,05</p> |





## SURGE ARRESTERS AND GALVANIC SEPARATORS FOR AHD, HD-CVI, HD-TVI

### 1-CHANNEL SURGE ARRESTERS







|  |   |   |
|--|---|---|
| <a href="#"><u>HDO-1F-PRO</u></a><br> | <b>1-channel surge arrester, PRO series with BNC socket - AHD, CVI, TVI</b> <ul style="list-style-type: none"> <li>• Compatible with AHD, HD-CVI, HD-TVI (Turbo HD) and 8Mpix systems</li> <li>• 2 levels of surge protection (GDT, TVS)</li> <li>• Protection efficiency 10kA, 8/20 <math>\mu</math>s</li> <li>• Passive device</li> <li>• 2-way signal transmission</li> <li>• Low circuit capacity</li> <li>• High quality BNC connectors</li> <li>• Grounding through cable</li> </ul>  | <p style="text-align: right;">€ 15,48</p> |
| <a href="#"><u>HDT-1F-PRO</u></a><br> | <b>1-channel surge arrester, PRO series with transformer for twisted pair - AHD, CVI, TVI</b> <ul style="list-style-type: none"> <li>• Compatible with AHD, HD-CVI, HD-TVI (Turbo HD) and 8Mpix systems</li> <li>• 2 levels of surge protection (GDT, TVS)</li> <li>• Protection efficiency 10kA, 8/20 <math>\mu</math>s</li> <li>• Built-in transformer for UTP</li> <li>• Passive device</li> <li>• 2-way signal transmission</li> <li>• Low circuit capacity</li> <li>• High quality BNC connector</li> <li>• Grounding through cable</li> </ul> | <p style="text-align: right;">€ 17,85</p> |





|   |   |         |
|---|---|---------|
| <a href="#"><u>HDO-1F-EXT</u></a><br>          | <b>1-channel surge arrester, EXT series with BNC socket - AHD, CVI, TVI</b> <ul style="list-style-type: none"> <li>• Compatible with AHD, HD-CVI, HD-TVI (Turbo HD) and 8Mpix systems</li> <li>• 3 levels of surge protection (GDT, MOSFET, TVS)</li> <li>• Superfast response time - MOSFET fuse</li> <li>• Protection efficiency 10kA, 8/20 µs</li> <li>• Passive device</li> <li>• 2-way signal transmission</li> <li>• Low circuit capacity</li> <li>• High quality BNC connectors</li> <li>• Grounding through cable</li> </ul>  | € 18,10 |
| <a href="#"><u>HDT-1F-EXT</u></a><br>          | <b>1-channel surge arrester, EXT series with transformer for twisted pair - AHD, CVI, TVI</b> <ul style="list-style-type: none"> <li>• Compatible with AHD, HD-CVI, HD-TVI (Turbo HD) and 8Mpix systems</li> <li>• 3 levels of surge protection (GDT, MOSFET, TVS)</li> <li>• Superfast response time - MOSFET fuse</li> <li>• Protection efficiency 10kA, 8/20 µs</li> <li>• Built-in transformer for UTP twisted pair</li> <li>• Passive device</li> <li>• 2-way signal transmission</li> <li>• Low circuit capacity</li> <li>• High quality BNC connector</li> <li>• Grounding through cable</li> </ul>  | € 22,85 |
| <a href="#"><u>BOX HD-1-EXT/12VDC</u></a><br> | <b>1-channel external surge arrester for video and power supply, EXT series with transformer for twisted pair - AHD, CVI, TVI</b> <ul style="list-style-type: none"> <li>• Compatible with AHD, HD-CVI, HD-TVI (Turbo HD) and 8Mpix systems</li> <li>• 3 levels of surge protection (GDT, MOSFET, TVS)</li> <li>• High durability and Protection efficiency up to thanks to MOSFET technology</li> <li>• Protection efficiency 10kA, 8/20 µs</li> <li>• Built-in transformer for UTP</li> <li>• Power supply protection 12V DC (optional 24V AC)</li> <li>• 2-way signal transmission</li> <li>• Low circuit capacity</li> <li>• Recommended for cameras mounted outside buildings and on poles and masts</li> <li>• Hermetic casing with IP65 tightness class</li> <li>• Can be mounted on a wall or U-BOX post bracket</li> <li>• Dimensions: 114 x 114 x 57 (mm)</li> <li>• Grounding through cable</li> </ul> | € 41,67 |
| <b>1-CHANNEL SEPARATORS</b>   |   |         |
| <a href="#"><u>HSO-1F-ECO</u></a><br>        | <b>1-channel Video separator, ECO series with anti-interference filter and BNC socket - AHD, CVI, TVI</b> <ul style="list-style-type: none"> <li>• Compatible with AHD, HD-CVI, HD-TVI (Turbo HD)</li> <li>• It protects against potential differences and disturbances due to ground loops</li> <li>• Built-in anti-interference filter</li> <li>• Passive device</li> <li>• 2-way signal transmission</li> <li>• Low circuit capacity</li> <li>• High quality BNC connectors</li> <li>• High efficiency of interference elimination</li> </ul>  | € 20,95 |
| <a href="#"><u>HST-1F-ECO</u></a><br>        | <b>1-channel Video separator, ECO series with anti-interference filter and transformer for twisted pair - AHD, CVI, TVI</b> <ul style="list-style-type: none"> <li>• Compatible with AHD, HD-CVI, HD-TVI (Turbo HD)</li> <li>• It protects against potential differences and disturbances due to ground loops</li> <li>• Built-in anti-interference filter</li> <li>• Built-in transformer for UTP twisted pair</li> <li>• Passive device</li> <li>• 2-way signal transmission</li> <li>• Low circuit capacity</li> <li>• High quality BNC connector</li> <li>• High efficiency of interference elimination</li> </ul>  | € 22,85 |








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|--|--|----------------|
| <p><b><u>HSO-1F-EXT</u></b></p>       | <p><b>1-channel Video separator, EXT series with protection, anti-interference filter and BNC socket - AHD, CVI, TVI</b></p> <ul style="list-style-type: none"> <li>• Compatible with AHD, HD-CVI, HD-TVI (Turbo HD)</li> <li>• It protects against potential differences and disturbances due to ground loops</li> <li>• Built-in anti-interference filter</li> <li>• Built-in high speed MOSFET fuse</li> <li>• 3 levels of surge protection (GDT, MOSFET, TVS)</li> <li>• Efficiency of overvoltage protection 10kA, 8/20 µs</li> <li>• Passive device</li> <li>• 2-way signal transmission</li> <li>• Low circuit capacity</li> <li>• High quality BNC connectors</li> <li>• High efficiency of interference elimination</li> <li>• Grounding through cable</li> </ul>   | <p>€ 26,67</p> |
| <p><b><u>HST-1F-EXT</u></b></p>       | <p><b>1-channel video separator EXT series with protection, anti-interference filter and transformer for twisted pair - AHD, CVI, TVI</b></p> <ul style="list-style-type: none"> <li>• Compatible with AHD, HD-CVI, HD-TVI (Turbo HD)</li> <li>• It protects against potential differences and disturbances due to ground loops</li> <li>• Built-in anti-interference filter</li> <li>• Built-in high speed MOSFET fuse</li> <li>• 3 levels of surge protection (GDT, MOSFET, TVS)</li> <li>• Efficiency of overvoltage protection 10kA, 8/20 µs</li> <li>• Built-in transformer for UTP twisted pair</li> <li>• Passive device</li> <li>• 2-way signal transmission</li> <li>• Low circuit capacity</li> <li>• High quality BNC connector</li> <li>• High efficiency of interference elimination</li> <li>• Grounding through cable</li> </ul>  | <p>€ 28,10</p> |
| <p><b>4-CHANNEL SURGE ARRESTERS</b></p>  |  |                |
| <p><b><u>LHD-4-PRO-FPS</u></b></p>  | <p><b>4-channel AHD, CVI, TVI surge arrester, PRO series with universal connector for twisted pair or coaxial cables and power distribution</b></p> <ul style="list-style-type: none"> <li>• Compatible with AHD, HD-CVI, HD-TVI (Turbo HD) and 8Mpix systems</li> <li>• 2 levels of surge protection (GDT, TVS)</li> <li>• Protection efficiency 4kA, 8/20 µs</li> <li>• 2-way signal transmission</li> <li>• Universal inputs for twisted pair and coaxial cables</li> <li>• Built-in transformers for UTP</li> <li>• Distribution of 12VDC power supply for 4 cameras (24V on request)</li> <li>• Built-in automatic fuses on the power line</li> <li>• Optical and audible short-circuit indication</li> <li>• Standalone housing / screwed to the wall</li> <li>• Grounding through cable</li> </ul>  | <p>€ 54,52</p> |
| <p><b><u>LHD-4-EXT-FPS</u></b></p>  | <p><b>4-channel AHD, CVI, TVI surge arrester, EXT series with universal connector for twisted pair or coaxial cables and power distribution</b></p> <ul style="list-style-type: none"> <li>• Compatible with AHD, HD-CVI, HD-TVI (Turbo HD) and 8Mpix systems</li> <li>• 3 levels of surge protection (GDT + Transil + MOSFET)</li> <li>• Superfast response time - MOSFET fuse</li> <li>• Protection efficiency 10kA, 8/20 µs</li> <li>• 2-way signal transmission</li> <li>• Universal inputs for twisted pair and coaxial cables</li> <li>• Built-in transformers for UTP twisted pair</li> <li>• Distribution of 12VDC power supply for 4 cameras (24V on request)</li> <li>• Built-in automatic fuses on the power line</li> <li>• Optical and audible short-circuit indication</li> <li>• Standalone housing / screwed to the wall</li> <li>• Grounding through cable</li> </ul> | <p>€ 65,24</p> |






## 8-CHANNEL PATCH PANELS AND SURGE ARRESTERS

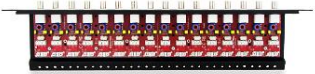

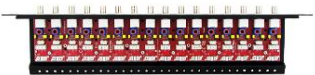

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| <p><a href="#"><u>FKO-8-HD</u></a></p>          | <p style="text-align: center;"><b>8-channel connection panel for coaxial cable</b></p> <ul style="list-style-type: none"> <li>• Compatible with AHD, HD-CVI, HD-TVI (Turbo HD) and 8Mpix systems</li> <li>• 8 video channels</li> <li>• Dedicated for connecting coaxial cables</li> <li>• Mounting: RACK 19", 1U height</li> <li>• Additional holes for fixing the bands</li> </ul>   | <p style="text-align: right;">€ 48,81</p>  |
| <p><a href="#"><u>FKO-8-HD-FPS</u></a></p>      | <p style="text-align: center;"><b>8-channel connection panel for coaxial cable with power distribution</b></p> <ul style="list-style-type: none"> <li>• Compatible with AHD, HD-CVI, HD-TVI (Turbo HD) and 8Mpix systems</li> <li>• 8 video channels</li> <li>• Dedicated for connecting coaxial cables</li> <li>• Power distribution 12VDC for 8 cameras (24V on request)</li> <li>• Built-in automatic fuses on the power line</li> <li>• Mounting: RACK 19", 1U height</li> <li>• Additional holes for fixing the bands</li> </ul>  | <p style="text-align: right;">€ 67,85</p>  |
| <p><a href="#"><u>FKT-8-HD</u></a></p>          | <p style="text-align: center;"><b>8-channel connection panel with transformer for twisted pair</b></p> <ul style="list-style-type: none"> <li>• Compatible with AHD, HD-CVI, HD-TVI (Turbo HD) and 8Mpix systems</li> <li>• 8 video channels</li> <li>• Built-in transformers for UTP twisted pair</li> <li>• Mounting: RACK 19", 1U height</li> <li>• Additional holes for fixing the bands</li> </ul>  | <p style="text-align: right;">€ 67,85</p>  |
| <p><a href="#"><u>FKT-8-HD-FPS</u></a></p>    | <p style="text-align: center;"><b>8-channel connection panel with transformer for twisted pair and power distribution</b></p> <ul style="list-style-type: none"> <li>• Compatible with AHD, HD-CVI, HD-TVI (Turbo HD) and 8Mpix systems</li> <li>• 8 video channels</li> <li>• Built-in transformers for UTP twisted pair</li> <li>• Power distribution 12VDC for 8 cameras (24V on request)</li> <li>• Built-in automatic fuses on the power line</li> <li>• Mounting: RACK 19", 1U height</li> <li>• Additional holes for fixing the bands</li> </ul>  | <p style="text-align: right;">€ 86,19</p>  |
| <p><a href="#"><u>LHD-8R-PRO</u></a></p>      | <p style="text-align: center;"><b>8-channel AHD, CVI, TVI surge arrester, PRO series with universal connector for twisted pair or coaxial cables</b></p> <ul style="list-style-type: none"> <li>• Compatible with AHD, HD-CVI, HD-TVI (Turbo HD) and 8Mpix systems</li> <li>• 2 levels of surge protection (GDT, TVS)</li> <li>• Protection efficiency 4kA, 8/20 <math>\mu</math>s</li> <li>• 2-way signal transmission</li> <li>• Universal inputs for twisted pair and coaxial cables</li> <li>• Built-in transformers for UTP twisted pair</li> <li>• Mounting: RACK 19", 1U height</li> <li>• Grounding through cable</li> </ul>   | <p style="text-align: right;">€ 109,52</p> |
| <p><a href="#"><u>LHD-8R-PRO-FPS</u></a></p>  | <p style="text-align: center;"><b>8-channel AHD, CVI, TVI surge arrester, PRO series with universal connector for twisted pair or coaxial cables and power distribution</b></p> <ul style="list-style-type: none"> <li>• Compatible with AHD, HD-CVI, HD-TVI (Turbo HD) and 8Mpix systems</li> <li>• 2 levels of surge protection (GDT, TVS)</li> <li>• Protection efficiency 4kA, 8/20 <math>\mu</math>s</li> <li>• 2-way signal transmission</li> <li>• Universal inputs for twisted pair and coaxial cables</li> <li>• Built-in transformers for UTP twisted pair</li> <li>• Power distribution 12VDC for 8 cameras (24V on request)</li> <li>• Built-in automatic fuses on the power line</li> <li>• Optical and audible short-circuit indication</li> <li>• Mounting: RACK 19", 1U height</li> <li>• Grounding through cable</li> </ul> | <p style="text-align: right;">€ 132,38</p> |






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| <p><b><u>LHD-8R-EXT</u></b></p>         | <p><b>8-channel AHD, CVI, TVI surge arrester, EXT series with universal connector for twisted pair or coaxial cables</b></p> <ul style="list-style-type: none"> <li>• Compatible with AHD, HD-CVI, HD-TVI (Turbo HD) and 8Mpix systems</li> <li>• 3 levels of surge protection (GDT, MOSFET, TVS)</li> <li>• Superfast response time - MOSFET fuse</li> <li>• Protection efficiency 10kA, 8/20 µs</li> <li>• 2-way signal transmission</li> <li>• Universal inputs for twisted pair and concentrate</li> <li>• Built-in transformers for UTP twisted pair</li> <li>• Mounting: RACK 19", 1U height</li> <li>• Grounding through cable</li> </ul>  | <p>€ 132,38</p> |
| <p><b><u>LHD-8R-EXT-FPS</u></b></p>     | <p><b>8-channel AHD, CVI, TVI surge arrester, EXT series with universal connector for twisted pair or coaxial cables and power distribution</b></p> <ul style="list-style-type: none"> <li>• Compatible with AHD, HD-CVI, HD-TVI (Turbo HD) and 8Mpix systems</li> <li>• 3 levels of surge protection (GDT, MOSFET, TVS)</li> <li>• Superfast response time - MOSFET fuse</li> <li>• Protection efficiency 10kA, 8/20 µs</li> <li>• 2-way signal transmission</li> <li>• Universal inputs for twisted pair and coaxial cables</li> <li>• Built-in transformers for UTP twisted pair</li> <li>• Power distribution 12VDC for 8 cameras (24V on request)</li> <li>• Built-in automatic fuses on the power line</li> <li>• Optical and audible short-circuit indication</li> <li>• Mounting: RACK 19", 1U height</li> <li>• Grounding through cable</li> </ul>                                 | <p>€ 158,10</p> |
| <p><b><u>LHST-8R-EXT</u></b></p>      | <p><b>8-channel AHD, CVI, TVI surge arrester with separation, EXT series with transformer for twisted pair</b></p> <ul style="list-style-type: none"> <li>• Compatible with AHD, HD-CVI, HD-TVI (Turbo HD)</li> <li>• 3 levels of surge protection (GDT, MOSFET, TVS)</li> <li>• Superfast response time - MOSFET fuse</li> <li>• Protects against potential differences and disturbances due to ground loops</li> <li>• Protection efficiency 10kA, 8/20 µs</li> <li>• 2-way signal transmission</li> <li>• 800VDC galvanic isolation</li> <li>• Built-in transformers for UTP twisted pair</li> <li>• Mounting: RACK 19", 1U height</li> <li>• Grounding through cable</li> </ul>   | <p>€ 158,10</p> |
| <p><b><u>LHST-8R-EXT-FPS</u></b></p>  | <p><b>8-channel AHD, CVI, TVI surge arrester with separation, EXT series with transformer for twisted pair and power distribution</b></p> <ul style="list-style-type: none"> <li>• Compatible with AHD, HD-CVI, HD-TVI (Turbo HD)</li> <li>• 3 levels of surge protection (GDT, MOSFET, TVS)</li> <li>• Superfast response time - MOSFET fuse</li> <li>• Protects against potential differences and disturbances due to ground loops</li> <li>• Protection efficiency 10kA, 8/20 µs</li> <li>• 2-way signal transmission</li> <li>• 800VDC galvanic isolation</li> <li>• Built-in transformers for UTP twisted pair</li> <li>• Power distribution 12VDC for 8 cameras (24V on request)</li> <li>• Built-in automatic fuses on the power line</li> <li>• Optical and audible short-circuit indication</li> <li>• Mounting: RACK 19", 1U height</li> <li>• Grounding through cable</li> </ul> | <p>€ 182,85</p> |

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|---|---|-----------------|
| <p><a href="#"><u>LHSO-8R-EXT</u></a></p>      | <p><b>8-channel AHD, CVI, TVI surge arrester with separation, EXT series for coaxial cable</b></p> <ul style="list-style-type: none"> <li>• Compatible with AHD, HD-CVI, HD-TVI (Turbo HD)</li> <li>• 3 levels of surge protection (GDT, MOSFET, TVS)</li> <li>• Superfast response time - MOSFET fuse</li> <li>• Protects against potential differences and disturbances due to ground loops</li> <li>• Protection efficiency 10kA, 8/20 µs</li> <li>• 2-way signal transmission</li> <li>• 800VDC galvanic isolation</li> <li>• Mounting: RACK 19", 1U height</li> <li>• Grounding through cable</li> </ul>   | <p>€ 158,10</p> |
| <p><a href="#"><u>LHSO-8R-EXT-FPS</u></a></p>  | <p><b>8-channel AHD, CVI, TVI surge arrester with separation, EXT series for coaxial cable and power distribution</b></p> <ul style="list-style-type: none"> <li>• Compatible with AHD, HD-CVI, HD-TVI (Turbo HD)</li> <li>• 3 levels of surge protection (GDT, MOSFET, TVS)</li> <li>• Superfast response time - MOSFET fuse</li> <li>• Protects against potential differences and disturbances due to ground loops</li> <li>• Protection efficiency 10kA, 8/20 µs</li> <li>• 2-way signal transmission</li> <li>• 800VDC galvanic isolation</li> <li>• Power distribution 12VDC for 8 cameras (24V on request)</li> <li>• Built-in automatic fuses on the power line</li> <li>• Optical and audible short-circuit indication</li> <li>• Mounting: RACK 19", 1U height</li> <li>• Grounding through cable</li> </ul> | <p>€ 182,85</p> |
| <p><b>16-CHANNEL PATCH PANELS AND SURGE ARRESTERS</b></p>   |   |                 |
| <p><a href="#"><u>FKO-16-HD</u></a></p>      | <p><b>16-channel connection panel for coaxial cable</b></p> <ul style="list-style-type: none"> <li>• Compatible with AHD, HD-CVI, HD-TVI (Turbo HD) and 8Mpix systems</li> <li>• 16 Video channels</li> <li>• Dedicated for connecting coaxial cables</li> <li>• Mounting: RACK 19", 1U height</li> <li>• Additional holes for fixing the bands</li> </ul>  | <p>€ 70,48</p>  |
| <p><a href="#"><u>FKO-16-HD-FPS</u></a></p>  | <p><b>16-channel connection panel for coaxial cable with power distribution</b></p> <ul style="list-style-type: none"> <li>• Compatible with AHD, HD-CVI, HD-TVI (Turbo HD) and 8Mpix systems</li> <li>• 16 Video channels</li> <li>• Dedicated for connecting coaxial cables</li> <li>• Power distribution 12VDC for 16 cameras (24V on request)</li> <li>• Built-in automatic fuses on the power line</li> <li>• Mounting: RACK 19", 1U height</li> <li>• Additional holes for fixing the bands</li> </ul>  | <p>€ 109,52</p> |
| <p><a href="#"><u>FKT-16-HD</u></a></p>      | <p><b>16-channel connection panel with transformer for twisted pair</b></p> <ul style="list-style-type: none"> <li>• Compatible with AHD, HD-CVI, HD-TVI (Turbo HD) and 8Mpix systems</li> <li>• 16 Video channels</li> <li>• Built-in transformers for UTP</li> <li>• Mounting: RACK 19", 1U height</li> <li>• Additional holes for fixing the bands</li> </ul>  | <p>€ 103,57</p> |



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|---|---|-----------------|
| <p><a href="#"><u>FKT-16-HD-FPS</u></a></p>      | <p><b>16-channel connection panel with transformer for twisted pair and power distribution</b></p> <ul style="list-style-type: none"> <li>• Compatible with AHD, HD-CVI, HD-TVI (Turbo HD) and 8Mpix systems</li> <li>• 16 Video channels</li> <li>• Built-in transformers for UTP</li> <li>• Power distribution 12VDC for 16 cameras (24V on request)</li> <li>• Built-in automatic fuses on the power line</li> <li>• Mounting: RACK 19", 1U height</li> <li>• Additional holes for fixing the bands</li> </ul>   | <p>€ 141,67</p> |
| <p><a href="#"><u>LHD-16R-PRO</u></a></p>        | <p><b>16-channel AHD, CVI, TVI surge arrester, PRO series with universal twisted-pair or coaxial connector</b></p> <ul style="list-style-type: none"> <li>• Compatible with AHD, HD-CVI, HD-TVI (Turbo HD) and 8Mpix systems</li> <li>• 2 levels of surge protection (GDT, TVS)</li> <li>• Protection efficiency 4kA, 8/20 µs</li> <li>• 2-way signal transmission</li> <li>• Universal inputs for twisted pair and concentrate</li> <li>• Built-in transformers for UTP twisted pair</li> <li>• Mounting: RACK 19", 1U height</li> <li>• Grounding through cable</li> </ul>  | <p>€ 168,81</p> |
| <p><a href="#"><u>LHD-16R-PRO-FPS</u></a></p>    | <p><b>16-channel AHD, CVI, TVI surge arrester, PRO series with universal connector for twisted pair or coaxial cables and power distribution</b></p> <ul style="list-style-type: none"> <li>• Compatible with AHD, HD-CVI, HD-TVI (Turbo HD) and 8Mpix systems</li> <li>• 2 levels of surge protection (GDT, TVS)</li> <li>• Protection efficiency 4kA, 8/20 µs</li> <li>• 2-way signal transmission</li> <li>• Universal inputs for twisted pair and coaxial cables</li> <li>• Built-in transformers for UTP twisted pair</li> <li>• Power distribution 12VDC for 16 cameras (24V on request)</li> <li>• Built-in automatic fuses on the power line</li> <li>• Optical and audible short-circuit indication</li> <li>• Mounting: RACK 19", 1U height</li> <li>• Grounding through cable</li> </ul>   | <p>€ 214,05</p> |
| <p><a href="#"><u>LHD-16R-EXT</u></a></p>      | <p><b>16-channel AHD, CVI, TVI surge arrester, EXT series with universal connector for twisted pair or coaxial cables</b></p> <ul style="list-style-type: none"> <li>• Compatible with AHD, HD-CVI, HD-TVI (Turbo HD) and 8Mpix systems</li> <li>• 3 levels of surge protection (GDT, MOSFET, TVS)</li> <li>• Superfast response time - MOSFET fuse</li> <li>• Protection efficiency 10kA, 8/20 µs</li> <li>• 2-way signal transmission</li> <li>• Universal inputs for twisted pair and concentrate</li> <li>• Built-in transformers for UTP twisted pair</li> <li>• Mounting: RACK 19", 1U height</li> <li>• Grounding through cable</li> </ul>   | <p>€ 205,95</p> |
| <p><a href="#"><u>LHD-16R-EXT-FPS</u></a></p>  | <p><b>16-channel AHD, CVI, TVI surge arrester, EXT series with universal connector for twisted pair or coaxial cables and power distribution</b></p> <ul style="list-style-type: none"> <li>• Compatible with AHD, HD-CVI, HD-TVI (Turbo HD) and 8Mpix systems</li> <li>• 3 levels of surge protection (GDT, MOSFET, TVS)</li> <li>• Superfast response time - MOSFET fuse</li> <li>• Protection efficiency 10kA, 8/20 µs</li> <li>• 2-way signal transmission</li> <li>• Universal inputs for twisted pair and coaxial cables</li> <li>• Built-in transformers for UTP twisted pair</li> <li>• Power distribution 12VDC for 16 cameras (24V on request)</li> <li>• Built-in automatic fuses on the power line</li> <li>• Optical and audible short-circuit indication</li> <li>• Mounting: RACK 19", 1U height</li> <li>• Grounding through cable</li> </ul> | <p>€ 251,90</p> |

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| <p><b><u>LHST-16R-EXT</u></b></p>        | <p><b>16-channel AHD, CVI, TVI surge arrester with Video separation, EXT series with transformer for twisted pair</b></p> <ul style="list-style-type: none"> <li>• Compatible with AHD, HD-CVI, HD-TVI (Turbo HD)</li> <li>• 3 levels of surge protection (GDT, MOSFET, TVS)</li> <li>• Superfast response time - MOSFET fuse</li> <li>• Protects against potential differences and disturbances due to ground loops</li> <li>• Protection efficiency 10kA, 8/20 µs</li> <li>• 2-way signal transmission</li> <li>• 800VDC galvanic isolation</li> <li>• Built-in transformers for UTP twisted pair</li> <li>• Mounting: RACK 19", 1U height</li> <li>• Grounding through cable</li> </ul>  | <p>€ 242,62</p> |
| <p><b><u>LHST-16R-EXT-FPS</u></b></p>    | <p><b>16-channel AHD, CVI, TVI surge arrester with Video separation, EXT series with transformer for twisted pair and power distribution</b></p> <ul style="list-style-type: none"> <li>• Compatible with AHD, HD-CVI, HD-TVI (Turbo HD)</li> <li>• 3 levels of surge protection (GDT, MOSFET, TVS)</li> <li>• Superfast response time - MOSFET fuse</li> <li>• Protects against potential differences and disturbances due to ground loops</li> <li>• Protection efficiency 10kA, 8/20 µs</li> <li>• 800VDC galvanic isolation</li> <li>• Built-in transformers for UTP twisted pair</li> <li>• 2-way signal transmission</li> <li>• Power distribution 12VDC for 16 cameras (24V on request)</li> <li>• Built-in automatic fuses on the power line</li> <li>• Optical and audible short-circuit indication</li> <li>• Mounting: RACK 19", 1U height</li> <li>• Grounding through cable</li> </ul> | <p>€ 285,48</p> |
| <p><b><u>LHSO-16R-EXT</u></b></p>      | <p><b>16-channel AHD, CVI, TVI surge arrester with Video separation, EXT series for coaxial cable</b></p> <ul style="list-style-type: none"> <li>• Compatible with AHD, HD-CVI, HD-TVI (Turbo HD)</li> <li>• 3 levels of surge protection (GDT, MOSFET, TVS)</li> <li>• Superfast response time - MOSFET fuse</li> <li>• Protects against potential differences and disturbances due to ground loops</li> <li>• Protection efficiency 10kA, 8/20 µs</li> <li>• 2-way signal transmission</li> <li>• 800VDC galvanic isolation</li> <li>• Mounting: RACK 19", 1U height</li> <li>• Grounding through cable</li> </ul>  | <p>€ 242,62</p> |
| <p><b><u>LHSO-16R-EXT-FPS</u></b></p>  | <p><b>16-channel AHD, CVI, TVI surge arrester with Video separation, EXT series for coaxial cable and power distribution</b></p> <ul style="list-style-type: none"> <li>• Compatible with AHD, HD-CVI, HD-TVI (Turbo HD)</li> <li>• 3 levels of surge protection (GDT, MOSFET, TVS)</li> <li>• Superfast response time - MOSFET fuse</li> <li>• Protects against potential differences and disturbances due to ground loops</li> <li>• Protection efficiency 10kA, 8/20 µs</li> <li>• 2-way signal transmission</li> <li>• 800VDC galvanic isolation</li> <li>• Power distribution 12VDC for 16 cameras (24V on request)</li> <li>• Built-in automatic fuses on the power line</li> <li>• Optical and audible short-circuit indication</li> <li>• Mounting: RACK 19", 1U height</li> <li>• Grounding through cable</li> </ul>   | <p>€ 285,48</p> |

| INSTALLATION ACCESSORIES  |  |         |
|---|--|---------|
| <a href="#"><u>Patchcord 50cm</u></a><br>  | <b>BNC-BNC connection cable</b> <ul style="list-style-type: none"> <li>• High-class compression-mounted BNC sockets</li> <li>• RG59 cable, 50 cm long</li> <li>• Low signal losses</li> <li>• Patchcord shows high resistance to mechanical damage, tearing and pulling out</li> <li>• Compatible with ANALOG, AHD, HD-CVI, HD-TVI (Turbo HD) systems</li> </ul>   | € 8,33  |
| <a href="#"><u>Patchcord 100cm</u></a><br> | <b>BNC-BNC connection cable</b> <ul style="list-style-type: none"> <li>• High-class compression-mounted BNC sockets</li> <li>• RG59 type cable with a length of 100cm</li> <li>• Low signal losses</li> <li>• Patchcord shows high resistance to mechanical damage, tearing and pulling out</li> <li>• Compatible with ANALOG, AHD, HD-CVI, HD-TVI (Turbo HD) systems</li> </ul>   | € 9,52  |
| <a href="#"><u>Patchcord 150cm</u></a><br> | <b>BNC-BNC connection cable</b> <ul style="list-style-type: none"> <li>• High-class compression-mounted BNC sockets</li> <li>• RG59 type cable with a length of 150cm</li> <li>• Low signal losses</li> <li>• Patchcord shows high resistance to mechanical damage, tearing and pulling out</li> <li>• Recommended for connecting protective panels</li> <li>• Compatible with ANALOG, AHD, HD-CVI, HD-TVI (Turbo HD) systems</li> </ul> | € 10,72 |
| <a href="#"><u>LK-MOUNT</u></a><br>      | <b>Mounting brackets for the RACK cabinet</b> <ul style="list-style-type: none"> <li>• Intended for patch panels and security devices</li> <li>• It allows panels to be mounted at an angle of 45 degrees</li> <li>• Mounted in the back of the RACK</li> <li>• Right and left handle included</li> </ul>  | € 15,48 |
| PASSIVE VIDEO BALUNS  |  |         |
| <a href="#"><u>TR-1F-HD</u></a><br>      | <b>1-channel passive transformer for UTP cable for AHD, CVI and TVI systems</b> <ul style="list-style-type: none"> <li>• Dedicated to AHD, HD-CVI, HD-TVI (Turbo HD)</li> <li>• Compatible with 8Mpix systems</li> <li>• Small dimensions</li> <li>• High frequency compensation filter</li> <li>• Resistance to interference</li> <li>• Low attenuation</li> </ul>  | € 3,57  |

# SURGE ARRESTERS AND GALVANIC SEPARATORS FOR PAL / CVBS SYSTEM

## 1-CHANNEL SURGE ARRESTERS

### SUG-3F



#### 1-channel overvoltage protection for cameras on coaxial cable with BNC sockets

- 3 levels of surge protection
- Dedicated to the coaxial cable
- Grounding through cable
- Input connector: BNC socket
- Output connector: BNC socket - SUG-3
- Output connector: BNC plug on the cable - SUG-3F

€ 15,48

### SUG-4BF



#### 1-channel overvoltage protection for cameras with UTP transformer

- 3 levels of surge protection
- Built-in high frequency compensation filter
- Built-in transformer for UTP
- Grounding through cable
- Input connector: Screw terminal
- Output connector: BNC socket - SUG-4B
- Output connector: BNC connector on the cable - SUG-4BF

€ 17,85

### CVG300



#### 1-channel galvanic separator with anti-interference filter for BNC cable

- It protects against potential differences and interferences caused by ground loops
- Built-in anti-interference filter
- Dedicated for connecting to coaxial cables
- Surge protection up to 1.5kV
- Input connector: BNC socket
- Output connector: BNC plug on the wire

€ 18,10

### TVG300



#### 1-channel galvanic separator with anti-interference filter for UTP cable

- It protects against potential differences and interferences caused by ground loops
- Built-in anti-interference filter
- Built-in transformer for UTP
- Surge protection up to 1.5kV
- Input connector: Screw terminal
- Output connector: BNC plug on the wire

€ 20,00

## 4-CHANNEL SURGE ARRESTERS

### LSO-4F



#### 4-channel separator integrated with overvoltage protection

- Protection of 4 PAL video channels
- Dedicated for connecting coaxial cables
- It protects against potential differences and interferences caused by ground loops
- Built-in anti-interference filter
- A galvanic separator for each channel
- 3 levels of overvoltage protection
- Cables with BNC connectors
- Grounding through cable
- Standalone housing / screwed to the wall

€ 70,24

### LST-4F









#### 4-channel separator with transformer integrated with overvoltage protection

- Protection of 4 PAL video channels
- It protects against potential differences and interferences caused by ground loops
- Built-in anti-interference filter
- Built-in transformers for UTP
- Removable connector for twisted pair
- A galvanic separator for each channel
- Effectively eliminates distortions in the image
- 3 levels of overvoltage protection
- Cables with BNC connectors
- Grounding through cable
- Standalone housing / screwed to the wall







€ 73,81

## 8-CHANNEL PATCH PANELS AND SURGE ARRESTERS

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|--|--|--|
| <p><b><u>FKO-8</u></b></p>        | <p style="text-align: center;"><b>8-channel connection panel for coaxial cable</b></p> <ul style="list-style-type: none"> <li>• 8 PAL video channels</li> <li>• Dedicated for connecting coaxial cables</li> <li>• Compatible with AHD, HD-CVI, HD-TVI</li> <li>• Mounting: RACK 19", 1U height</li> <li>• Additional holes for fixing the bands</li> </ul>  | <p style="text-align: right;">€ 48,81</p>  |
| <p><b><u>FKO-8-FPS</u></b></p>    | <p style="text-align: center;"><b>8-channel connection panel for coaxial cable with power distribution</b></p> <ul style="list-style-type: none"> <li>• 8 PAL video channels</li> <li>• Dedicated for connecting coaxial cables</li> <li>• Power distribution 12VDC for 8 cameras (24V on request)</li> <li>• Built-in automatic fuses on the power line</li> <li>• Compatible with AHD, HD-CVI, HD-TVI</li> <li>• Mounting: RACK 19", 1U height</li> <li>• Additional holes for fixing the bands</li> </ul> | <p style="text-align: right;">€ 67,85</p>  |
| <p><b><u>FKT-8</u></b></p>        | <p style="text-align: center;"><b>8-channel connection panel with transformer for twisted pair</b></p> <ul style="list-style-type: none"> <li>• 8 PAL video channels</li> <li>• Built-in transformers for UTP</li> <li>• Mounting: RACK 19", 1U height</li> <li>• Additional holes for fixing the bands</li> </ul>   | <p style="text-align: right;">€ 67,85</p>  |
| <p><b><u>FKT-8-FPS</u></b></p>  | <p style="text-align: center;"><b>8-channel connection panel with transformer for twisted pair and power distribution</b></p> <ul style="list-style-type: none"> <li>• 8 PAL video channels</li> <li>• Built-in transformers for UTP</li> <li>• Power distribution 12VDC for 8 cameras (24V on request)</li> <li>• Built-in automatic fuses on the power line</li> <li>• Mounting: RACK 19", 1U height</li> <li>• Additional holes for fixing the bands</li> </ul>   | <p style="text-align: right;">€ 86,19</p>  |
| <p><b><u>LSO-8R</u></b></p>     | <p style="text-align: center;"><b>8-channel video separator with overvoltage protection for coaxial cable</b></p> <ul style="list-style-type: none"> <li>• 8 PAL video channels</li> <li>• Galvanic separation based on an amorphous core</li> <li>• Protection against the effects of potential difference</li> <li>• Dedicated for connecting coaxial cables</li> <li>• 3 levels of surge protection</li> <li>• Mounting: RACK 19", 1U height</li> <li>• Grounding through cable</li> </ul>                | <p style="text-align: right;">€ 168,57</p> |
| <p><b><u>LST-8R</u></b></p>     | <p style="text-align: center;"><b>8-channel video separator with overvoltage protection and transformer for twisted pair</b></p> <ul style="list-style-type: none"> <li>• 8 PAL video channels</li> <li>• Built-in transformers for UTP</li> <li>• Galvanic separation based on an amorphous core</li> <li>• Protection against the effects of potential difference</li> <li>• 3 levels of surge protection</li> <li>• Mounting: RACK 19", 1U height</li> <li>• Grounding through cable</li> </ul>           | <p style="text-align: right;">€ 194,28</p> |




## 16-CHANNEL PATCH PANELS AND SURGE ARRESTERS







|   |   |  |
|---|---|--|
| <p><b><u>FKO-16</u></b></p>        | <p style="text-align: center;"><b>16-channel connection panel for coaxial cable</b></p> <ul style="list-style-type: none"> <li>• 16 PAL Video channels</li> <li>• Dedicated for connecting coaxial cables</li> <li>• Compatible with AHD, HD-CVI, HD-TVI</li> <li>• Mounting: RACK 19", 1U height</li> <li>• Additional holes for fixing the bands</li> </ul>   | <p style="text-align: right;">€ 70,48</p>  |
| <p><b><u>FKO-16-FPS</u></b></p>    | <p style="text-align: center;"><b>16-channel connection panel for coaxial cable with power distribution</b></p> <ul style="list-style-type: none"> <li>• 16 PAL Video channels</li> <li>• Dedicated for connecting coaxial cables</li> <li>• Power distribution 12VDC for 16 cameras (24V on request)</li> <li>• Built-in automatic fuses on the power line</li> <li>• Compatible with AHD, HD-CVI, HD-TVI</li> <li>• Mounting: RACK 19", 1U height</li> <li>• Additional holes for fixing the bands</li> </ul>                                       | <p style="text-align: right;">€ 109,52</p> |
| <p><b><u>FKT-16</u></b></p>        | <p style="text-align: center;"><b>16-channel connection panel with transformer for twisted pair</b></p> <ul style="list-style-type: none"> <li>• 16 PAL Video channels</li> <li>• Built-in transformers for UTP twisted pair</li> <li>• Mounting: RACK 19", 1U height</li> <li>• Additional holes for fixing the bands</li> </ul>   | <p style="text-align: right;">€ 103,57</p> |
| <p><b><u>FKT-16-FPS</u></b></p>  | <p style="text-align: center;"><b>16-channel connection panel with transformer for twisted pair and with power distribution</b></p> <ul style="list-style-type: none"> <li>• 16 Video PAL channels</li> <li>• Built-in transformers for UTP</li> <li>• Power distribution 12VDC for 16 cameras (24V on request)</li> <li>• Built-in automatic fuses on the power line</li> <li>• Mounting: RACK 19", 1U height</li> <li>• Additional holes for fixing the bands</li> </ul>  | <p style="text-align: right;">€ 141,67</p> |
| <p><b><u>LSO-16R</u></b></p>     | <p style="text-align: center;"><b>16-channel video separator with security for coaxial cable</b></p> <ul style="list-style-type: none"> <li>• 16 PAL Video channels</li> <li>• Galvanic separation based on an amorphous core</li> <li>• Protection against the effects of potential difference</li> <li>• Dedicated for connecting coaxial cables</li> <li>• 3 levels of surge protection</li> <li>• Additional holes for fixing the bands</li> <li>• Mounting: RACK 19", 1U height</li> <li>• Grounding through cable</li> </ul>                    | <p style="text-align: right;">€ 290,00</p> |
| <p><b><u>LST-16R</u></b></p>     | <p style="text-align: center;"><b>16-channel video separator with overvoltage protection and transformer for twisted pair</b></p> <ul style="list-style-type: none"> <li>• 16 Video PAL channels</li> <li>• Built-in transformers for UTP</li> <li>• Galvanic separation based on an amorphous core</li> <li>• Protection against the effects of potential difference</li> <li>• 3 levels of surge protection</li> <li>• Additional holes for fixing the bands</li> <li>• Mounting: RACK 19", 1U height</li> <li>• Grounding through cable</li> </ul> | <p style="text-align: right;">€ 303,81</p> |

## SURGE ARRESTERS FOR POWER LINE

|  |  |  |
|--|--|--|
| <p><b><u>SUG-7 / 12VDC</u></b></p>        | <p style="text-align: center;"><b>12V DC power line surge arrester</b></p> <ul style="list-style-type: none"> <li>• Rated voltage 12V DC</li> <li>• 2 levels of protection (GDT, TVS)</li> <li>• Protection efficiency 10kA</li> <li>• Protection against short circuits</li> <li>• Grounding through cable</li> <li>• Standalone housing</li> <li>• Protection against the increase of the supply voltage</li> <li>• Dimensions: 74 x 32 x 25 (mm)</li> </ul>                           | <p style="text-align: center;">€ 21,19</p> |
| <p><b><u>SUG-7 / 24VAC</u></b></p>        | <p style="text-align: center;"><b>24V AC power line surge arrester</b></p> <ul style="list-style-type: none"> <li>• Rated voltage 24V AC</li> <li>• 2 levels of protection (GDT, TVS)</li> <li>• Protection efficiency 10kA</li> <li>• Protection against short circuits</li> <li>• Grounding through cable</li> <li>• Standalone housing</li> <li>• Protection against the increase of the supply voltage</li> <li>• Dimensions: 74 x 32 x 25 (mm)</li> </ul>                           | <p style="text-align: center;">€ 21,19</p> |
| <p><b><u>SUG-7 / 24VDC</u></b></p>       | <p style="text-align: center;"><b>24V DC power line surge arrester</b></p> <ul style="list-style-type: none"> <li>• Rated voltage 24V DC</li> <li>• 2 levels of protection (GDT, TVS)</li> <li>• Protection efficiency 10kA</li> <li>• Protection against short circuits</li> <li>• Grounding through cable</li> <li>• Standalone housing</li> <li>• Protection against the increase of the supply voltage</li> <li>• Dimensions: 74 x 32 x 25 (mm)</li> </ul>                           | <p style="text-align: center;">€ 21,19</p> |
| <p><b><u>SUG-7 / 48VDC</u></b></p>      | <p style="text-align: center;"><b>48V DC power line surge arrester</b></p> <ul style="list-style-type: none"> <li>• Rated voltage 48V DC</li> <li>• 2 levels of protection (GDT, TVS)</li> <li>• Protection efficiency 10kA</li> <li>• Protection against short circuits</li> <li>• Grounding through cable</li> <li>• Standalone housing</li> <li>• Protection against the increase of the supply voltage</li> <li>• Dimensions: 74 x 32 x 25 (mm)</li> </ul>                           | <p style="text-align: center;">€ 21,19</p> |
| <p><b><u>SUG-7-DIN / 12VDC</u></b></p>  | <p style="text-align: center;"><b>12V DC power line surge arrester for a DIN rail</b></p> <ul style="list-style-type: none"> <li>• Rated voltage 12V DC</li> <li>• 2 levels of protection (GDT, TVS)</li> <li>• Protection efficiency 10kA</li> <li>• Protection against short circuits</li> <li>• Grounding through cable</li> <li>• Protection against the increase of the supply voltage</li> <li>• Standalone / DIN rail housing</li> <li>• Dimensions: 18 x 90 x 59 (mm)</li> </ul> | <p style="text-align: center;">€ 29,76</p> |
| <p><b><u>SUG-7-DIN / 24VAC</u></b></p>  | <p style="text-align: center;"><b>24V AC power line surge arrester for DIN rail</b></p> <ul style="list-style-type: none"> <li>• Rated voltage 24V AC</li> <li>• 2 levels of protection (GDT, TVS)</li> <li>• Protection efficiency 10kA</li> <li>• Protection against short circuits</li> <li>• Grounding through cable</li> <li>• Protection against the increase of the supply voltage</li> <li>• Standalone / DIN rail housing</li> <li>• Dimensions: 18 x 90 x 59 (mm)</li> </ul>   | <p style="text-align: center;">€ 29,76</p> |

|   |  |         |
|---|--|---------|
| <a href="#"><u>SUG-7-DIN / 24VDC</u></a><br>   | <b>24V DC power line surge arrester for DIN rail</b> <ul style="list-style-type: none"> <li>• Rated voltage 24V DC</li> <li>• 2 levels of protection (GDT, TVS)</li> <li>• Protection efficiency 10kA</li> <li>• Protection against short circuits</li> <li>• Grounding through cable</li> <li>• Protection against the increase of the supply voltage</li> <li>• Standalone / DIN rail housing</li> <li>• Dimensions: 18 x 90 x 59 (mm)</li> </ul>  | € 29,76 |
| <a href="#"><u>SUG-7-DIN / 48VDC</u></a><br>   | <b>48V DC power line surge arrester for DIN rail</b> <ul style="list-style-type: none"> <li>• Rated voltage 48V DC</li> <li>• 2 levels of protection (GDT, TVS)</li> <li>• Protection efficiency 10kA</li> <li>• Protection against short circuits</li> <li>• Grounding through cable</li> <li>• Protection against the increase of the supply voltage</li> <li>• Standalone / DIN rail housing</li> <li>• Dimensions: 18 x 90 x 59 (mm)</li> </ul>  | € 29,76 |
| <a href="#"><u>SUG-5</u></a><br>               | <b>Miniature power line surge arrester 230V</b> <ul style="list-style-type: none"> <li>• 230V power supply protection</li> <li>• Maximum protection 4kV</li> <li>• Recommended for impulse power supplies</li> <li>• Small dimensions enable installation in boxes and sockets</li> <li>• Dimensions: 25 x 10 x 10 (mm)</li> </ul>   | € 5,95  |
| <b>SURGE ARRESTERS FOR M-BUS / MODBUS / PROFIBUS / RS-485</b>   |  |         |
| <a href="#"><u>SUG-7 / M-BUS</u></a><br>     | <b>M-bus surge arrester</b> <ul style="list-style-type: none"> <li>• 3 levels of protection (GDT, MOSFET, TVS)</li> <li>• Protection efficiency 10kA</li> <li>• High durability and protection efficiency - superfast MOSFET fuses</li> <li>• Protection of transmission wires at the screen</li> <li>• Low capacitance of circuit</li> <li>• Protection against surges and potential differences</li> <li>• Grounding through cable</li> <li>• Standalone housing</li> <li>• Dimensions: 74 x 32 x 25 (mm)</li> </ul>   | € 23,33 |
| <a href="#"><u>SUG-7-DIN / M-BUS</u></a><br> | <b>M-bus surge arrester for DIN rail</b> <ul style="list-style-type: none"> <li>• 3 levels of protection (GDT, MOSFET, TVS)</li> <li>• Protection efficiency 10kA</li> <li>• High durability and protection efficiency - superfast MOSFET fuses</li> <li>• Protection of transmission wires at the screen</li> <li>• Low capacitance of circuit</li> <li>• Protection against surges and potential differences</li> <li>• Grounding through cable</li> <li>• Standalone / DIN rail housing</li> <li>• Dimensions: 18 x 90 x 59 (mm)</li> </ul>   | € 32,15 |
| <a href="#"><u>SUG-7 / RS-485</u></a><br>    | <b>RS-485 bus surge arrester</b> <ul style="list-style-type: none"> <li>• 3 levels of protection (GDT, MOSFET, TVS)</li> <li>• Protection efficiency 10kA</li> <li>• High durability and protection efficiency - superfast MOSFET fuses</li> <li>• Protection of transmission wires at the screen</li> <li>• Low capacitance of circuit</li> <li>• Compatible with: Modbus RTU / Profibus / RS-485 buses</li> <li>• Protection against surges and potential differences</li> <li>• Grounding through cable</li> <li>• Standalone housing</li> <li>• Dimensions: 74 x 32 x 25 (mm)</li> </ul> | € 23,33 |







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|--|---|---------|
| <a href="#"><u>SUG-7-DIN / RS-485</u></a><br> | <b>RS-485 bus surge arrester for DIN rail</b> <ul style="list-style-type: none"> <li>• 3 levels of protection (GDT, MOSFET, TVS)</li> <li>• Protection efficiency 10kA</li> <li>• High durability and protection efficiency thanks to use of resettable superfast MOSFET fuses</li> <li>• Protection of transmission wires at the screen</li> <li>• Low capacitance of circuit</li> <li>• Compatible with: Modbus RTU / Profibus / RS-485 buses</li> <li>• Protection against surges and potential differences</li> <li>• Grounding through cable</li> <li>• Standalone / DIN rail housing</li> <li>• Dimensions: 18 x 90 x 59 (mm)</li> </ul>  | € 32,15 |
| <a href="#"><u>SUG-7-DIN / 4-20mA</u></a><br> | <b>Current loop surge arrester for DIN rail</b> <ul style="list-style-type: none"> <li>• 3 levels of protection (GDT, MOSFET, TVS)</li> <li>• Protection efficiency 10kA</li> <li>• High durability and protection efficiency thanks to use of resettable superfast MOSFET fuses</li> <li>• Protection of transmission wires at the screen</li> <li>• Low capacitance of circuit</li> <li>• Protection against surges and potential differences</li> <li>• Cooperation with any current loop up to 24VDC</li> <li>• Grounding through cable</li> <li>• Standalone / DIN rail housing</li> <li>• Dimensions: 18 x 90 x 59 (mm)</li> </ul>  | € 32,15 |
| <a href="#"><u>SUG-7-DIN / IO24</u></a><br> | <b>Surge arrester of digital inputs and outputs on a DIN rail</b> <ul style="list-style-type: none"> <li>• 3 levels of protection (GDT, MOSFET, TVS)</li> <li>• Protection efficiency 10kA</li> <li>• High durability and protection efficiency thanks to use of resettable superfast MOSFET fuses</li> <li>• Protection of transmission wires at the screen</li> <li>• Low capacitance of circuit</li> <li>• Protection against surges and potential differences</li> <li>• 2 protection lines (input / output / power supply)</li> <li>• Cooperation with any devices up to 24VDC</li> <li>• Grounding through cable</li> <li>• Standalone / DIN rail housing</li> <li>• Dimensions: 18 x 90 x 59 (mm)</li> </ul> | € 32,15 |
| <b>ACTIVE RS-485 BUS DEVICES - SPLITTERS / DISTRIBUTORS</b>  |   |         |
| <a href="#"><u>USB-485/1/1</u></a><br>      | <b>RS-485 to USB converter</b> <ul style="list-style-type: none"> <li>• 2-way RS-485 communication</li> <li>• Connecting via USB</li> <li>• The maximum bus length is 1200m</li> <li>• Easy connection and quick driver installation</li> <li>• 600W surge protection</li> <li>• Baud rate 300baud - 115200baud</li> </ul>  | € 32,15 |
| <a href="#"><u>EW-485/1/1/So</u></a><br>    | <b>Active unidirectional RS-485 bus amplifier</b> <ul style="list-style-type: none"> <li>• 1-way transmission</li> <li>• 1 x RS-485 input (slave)</li> <li>• 1 x RS-485 output (master)</li> <li>• Transmission up to 1Mbit</li> <li>• Optical separation - 1kV</li> <li>• Surge protection up to 600W</li> <li>• 9 ~ 24V DC power supply</li> <li>• Extending the bus by another 1200m</li> <li>• Dimensions: 74 x 32 x 27 (mm)</li> </ul>   | € 37,15 |

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|---|---|-----------------|
| <p><a href="#"><u>EW-485/1/2/So</u></a></p>    | <p><b>Active bi-directional separator repeater of RS-485 bus</b></p> <ul style="list-style-type: none"> <li>• 2-way Half Duplex transmission</li> <li>• 1 x RS-485 input</li> <li>• 1 x RS-485 output</li> <li>• Optical signaling of transmission and reception</li> <li>• Transmission from 300bit to 1Mbit</li> <li>• Optical separation - 1kV</li> <li>• Surge protection up to 600W</li> <li>• 9 ~ 24V DC power supply</li> <li>• Extending the bus by another 1200m</li> <li>• Dimensions: 74 x 32 x 27 (mm)</li> </ul> | <p>€ 51,90</p>  |
| <p><a href="#"><u>EW-Biphase/4/1</u></a></p>   | <p><b>Active amplifier and splitter of Biphase bus</b></p> <ul style="list-style-type: none"> <li>• 1-way transmission</li> <li>• 1 x Biphase entrance</li> <li>• 4 x Biphase outputs</li> <li>• 31250 baud transmission</li> <li>• Surge protection up to 600W</li> <li>• 9 ~ 24V DC power supply</li> <li>• Dimensions: 90 x 83 x 33 (mm)</li> </ul>  | <p>€ 101,90</p> |
| <p><a href="#"><u>EW-485/4/1</u></a></p>      | <p><b>Active amplifier and splitter of RS-485 bus</b></p> <ul style="list-style-type: none"> <li>• 1-way transmission</li> <li>• 1 x RS-485 input</li> <li>• 4 x RS-485 outputs</li> <li>• Transmission from 300baud to 1Mbaud</li> <li>• Surge protection up to 600W</li> <li>• 9 ~ 24V DC power supply</li> <li>• Extending the bus by another 1200m</li> <li>• Dimensions: 90 x 83 x 33 (mm)</li> </ul>  | <p>€ 101,90</p> |
| <p><a href="#"><u>EW-485/4/1/So</u></a></p>  | <p><b>Active amplifier and splitter with optical separation for RS-485 bus</b></p> <ul style="list-style-type: none"> <li>• 1-way transmission</li> <li>• 1 x RS-485 input</li> <li>• 4 x RS-485 outputs</li> <li>• Transmission from 300baud to 1Mbaud</li> <li>• Optical separation - 1kV</li> <li>• Surge protection up to 600W</li> <li>• 9 ~ 24V DC power supply</li> <li>• Extending the bus by another 1200m</li> <li>• Dimensions: 90 x 83 x 33 (mm)</li> </ul>   | <p>€ 127,38</p> |
| <p><a href="#"><u>EW-485/4/2</u></a></p>     | <p><b>Active bi-directional amplifier and splitter for RS-485 bus</b></p> <ul style="list-style-type: none"> <li>• 2-way Half Duplex transmission</li> <li>• 1 x RS-485 input</li> <li>• 4 x RS-485 outputs</li> <li>• Transmission from 300baud to 500kbaud</li> <li>• Surge protection up to 600W</li> <li>• 9 ~ 24V DC power supply</li> <li>• Extending the bus by another 1200m</li> <li>• Dimensions: 90 x 83 x 33 (mm)</li> </ul>  | <p>€ 130,72</p> |
| <p><a href="#"><u>EW-485/4/2/So</u></a></p>  | <p><b>Active bi-directional amplifier and splitter for RS-485 bus with optical separation</b></p> <ul style="list-style-type: none"> <li>• 2-way Half Duplex transmission</li> <li>• 1 x RS-485 input</li> <li>• 4 x RS-485 outputs</li> <li>• Transmission from 300baud to 1Mbaud</li> <li>• Optical separation - 1kV</li> <li>• Surge protection up to 600W</li> <li>• 9 ~ 24V DC power supply</li> <li>• Extending the bus by another 1200m</li> <li>• Dimensions: 90 x 83 x 33 (mm)</li> </ul>                            | <p>€ 161,67</p> |





# PROTOCOL CONVERTERS





## CONVERTERS OF BOSCH COMMUNICATION PROTOCOLS

|  |  |          |
|--|--|----------|
| <a href="#"><u>CONV-AG Bosch-to-Pelco-Lite</u></a><br>      | <b>Bosch / Biphas to Pelco PTZ protocol converter</b> <ul style="list-style-type: none"> <li>• Support for one camera (up to 99 with extension)</li> <li>• USB management and update</li> <li>• Flexible camera selection 1-255 (1-16383)</li> <li>• Bosch OSRD and BIPHASE protocol</li> <li>• Pelco-P and Pelco-D protocol support</li> <li>• Quick response to control</li> <li>• Advance additional options</li> <li>• Software change function</li> </ul>     | € 202,38 |
| <a href="#"><u>CONV-AG Bosch-to-Pelco</u></a><br>           | <b>Bosch / Biphas to Pelco PTZ protocol converter</b> <ul style="list-style-type: none"> <li>• Support for 16 cameras (up to 99 with extension)</li> <li>• USB management and update</li> <li>• Flexible camera selection 1-255 (1-16383)</li> <li>• Bosch OSRD and BIPHASE protocol</li> <li>• Pelco-P and Pelco-D protocol support</li> <li>• Quick response to control</li> <li>• Advanced additional options</li> <li>• Software change function</li> </ul>    | € 297,62 |
| <a href="#"><u>CONV-AG Pelco-to-Bosch-Lite</u></a><br>     | <b>Pelco to Bosch / Biphas PTZ protocol converter</b> <ul style="list-style-type: none"> <li>• Support for one camera (up to 99 with extension)</li> <li>• Management and update via USB</li> <li>• Flexible selection of addresses 1-16383</li> <li>• Bosch OSRD and BIPHASE protocol</li> <li>• Pelco-P and Pelco-D protocol support</li> <li>• Quick reaction to steering</li> <li>• Advanced additional options</li> <li>• Software change function</li> </ul> | € 202,38 |
| <a href="#"><u>CONV-AG Pelco-to-Bosch</u></a><br>         | <b>Pelco to Bosch / Biphas PTZ protocol converter</b> <ul style="list-style-type: none"> <li>• Support for 16 cameras (up to 99 with extension)</li> <li>• USB management and update</li> <li>• Flexible camera selection 1-255 (1-16383)</li> <li>• Bosch OSRD and BIPHASE protocol</li> <li>• Pelco-P and Pelco-D protocol support</li> <li>• Quick response to control</li> <li>• Advanced additional options</li> <li>• Software change function</li> </ul>    | € 297,62 |
| <a href="#"><u>CONV-AG OSRD-to-Biphase</u></a><br>        | <b>Bosch / Philips to Biphase protocol converter</b> <ul style="list-style-type: none"> <li>• Support for any number of cameras</li> <li>• USB management and update</li> <li>• Bosch OSRD and BIPHASE protocol</li> <li>• Quick response to control</li> <li>• Full transparency for data</li> <li>• Software change function</li> </ul>  | € 297,62 |
| <a href="#"><u>CONV-AG KBD-Intuikey-Interface</u></a><br> | <b>Protocol converter for Bosch KBD-Universal and KBD-Digital</b> <ul style="list-style-type: none"> <li>• Support for 16 cameras (up to 99 with extension)</li> <li>• Settings and update via USB</li> <li>• Bosch protocols OSRD and BIPHASE</li> <li>• Pelco protocol Pelco-P and Pelco-D</li> <li>• Fast control reaction</li> <li>• Optional additional features</li> <li>• Software change function</li> </ul>   | € 297,62 |

## CONVERTERS OF GEUTEBRÜCK COMMUNICATION PROTOCOLS

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|---|---|-----------------|
| <a href="#"><u>CONV-AG Geutebrück-to-Pelco</u></a><br> | <b>PTZ protocol converter Geutebrück to Pelco</b> <ul style="list-style-type: none"> <li>• Support for 16 cameras (up to 99 with extension)</li> <li>• Setup and upgrade via USB</li> <li>• Flexible address selection 1-255</li> <li>• Selectable Pelco protocols</li> <li>• Supports constant speed or variable moving</li> <li>• Optional additional features</li> <li>• Software change function</li> </ul> | <p>€ 297,62</p> |
| <a href="#"><u>CONV-AG Pelco-to-Geutebrück</u></a><br> | <b>PTZ protocol converter Pelco to Geutebrück</b> <ul style="list-style-type: none"> <li>• Support for 16 cameras (up to 99 with extension)</li> <li>• Setup and upgrade via USB</li> <li>• Flexible address selection 1-255</li> <li>• Selectable Pelco protocols</li> <li>• Supports constant speed or variable moving</li> <li>• Optional additional features</li> <li>• Software change function</li> </ul> | <p>€ 297,62</p> |







## CONVERTERS OF KALATEL / GE COMMUNICATION PROTOCOLS





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|--|---|-----------------|
| <a href="#"><u>CONV-AG Pelco-to-GE Interlogix</u></a><br>  | <b>Pelco to GE Interlogix protocol converter</b> <ul style="list-style-type: none"> <li>• Support for 16 cameras (up to 99 with extension)</li> <li>• USB management and update</li> <li>• Flexible camera selection 0-255 (0-511)</li> <li>• Pelco-P and Pelco-D protocol support</li> <li>• Quick response to control</li> <li>• Advanced additional options</li> <li>• Software change function</li> </ul>   | <p>€ 202,38</p> |
| <a href="#"><u>CONV-AG GE Interlogix-to-Pelco</u></a><br> | <b>GE Interlogix to Pelco protocol converter</b> <ul style="list-style-type: none"> <li>• Support up to 16 cameras (up to 99 with extension)</li> <li>• USB management and update</li> <li>• Flexible camera selection 0-255 (0-511)</li> <li>• Pelco-P and Pelco-D protocol support</li> <li>• Quick response to control</li> <li>• Advanced additional options</li> <li>• Software change function</li> </ul>   | <p>€ 202,38</p> |
| <a href="#"><u>CONV-BG MX Pelco-to-TEB</u></a><br>        | <b>Pelco to TEB protocol converter with matrix switcher support Kalatel</b> <ul style="list-style-type: none"> <li>• Support up to 16 cameras (up to 99 with extension)</li> <li>• USB management and update</li> <li>• Kalatel patch control</li> <li>• Flexible camera selection 1-255</li> <li>• Dual interface for TEB cameras</li> <li>• Pelco-P and Pelco-D protocol support</li> <li>• Quick response to control</li> <li>• Advanced additional options</li> <li>• Software change function</li> </ul>     | <p>€ 328,57</p> |
| <a href="#"><u>CONV-BG MX Samsung-to-TEB</u></a><br>      | <b>Samsung to TEB protocol converter with matrix switcher support Kalatel</b> <ul style="list-style-type: none"> <li>• Support for 16 cameras (up to 99 with extension)</li> <li>• USB management and update</li> <li>• Kalatel patch control</li> <li>• Flexible camera selection 1-255</li> <li>• Dual interface for TEB cameras</li> <li>• Samsung-E and Samsung-T protocol support</li> <li>• Quick response to control</li> <li>• Advanced additional options</li> <li>• Software change function</li> </ul> | <p>€ 328,57</p> |

## CONVERTERS OF TEB COMMUNICATION PROTOCOLS



|   |  |                 |
|---|--|-----------------|
| <p><a href="#"><u>CONV-BG Pelco-to-TEB</u></a></p>         | <p style="text-align: center;"><b>Pelco to TEB protocol converter</b></p> <ul style="list-style-type: none"> <li>• Support for 16 cameras (up to 99 with extension)</li> <li>• USB management and update</li> <li>• Flexible camera selection 1-255</li> <li>• Dual interface for TEB cameras</li> <li>• Pelco-P i Pelco-D, 1998, Ligne protocol support</li> <li>• Quick response to control</li> <li>• Advanced additional options</li> <li>• Software change function</li> </ul>  | <p>€ 328,57</p> |
| <p><a href="#"><u>CONV-BG TEB-to-Pelco</u></a></p>         | <p style="text-align: center;"><b>TEB to Pelco protocol converter</b></p> <ul style="list-style-type: none"> <li>• Support for 16 cameras (up to 99 with extension)</li> <li>• USB management and update</li> <li>• Flexible camera selection 1-255</li> <li>• Dual interface for TEB cameras</li> <li>• Pelco-P i Pelco-D, 1998, Ligne protocol support</li> <li>• Quick response to control</li> <li>• Advanced additional options</li> <li>• Software change function</li> </ul>  | <p>€ 328,57</p> |
| <p><a href="#"><u>CONV-BG Samsung-to-TEB</u></a></p>      | <p style="text-align: center;"><b>Samsung to TEB protocol converter</b></p> <ul style="list-style-type: none"> <li>• Support for 16 cameras (up to 99 with extension)</li> <li>• USB management and update</li> <li>• Flexible camera selection 1-255</li> <li>• Dual interface for TEB cameras</li> <li>• Samsung-T and Samsung-E protocol support</li> <li>• Quick response to control</li> <li>• Advanced additional options</li> <li>• Software change function</li> </ul>   | <p>€ 328,57</p> |
| <p><a href="#"><u>CONV-BG MX Pelco-to-TEB</u></a></p>    | <p style="text-align: center;"><b>Pelco to TEB protocol converter with matrix switcher support Kalatel</b></p> <ul style="list-style-type: none"> <li>• Support for 16 cameras (up to 99 with extension)</li> <li>• USB management and update</li> <li>• Kalatel patch control</li> <li>• Flexible camera selection 1-255</li> <li>• Dual interface for TEB cameras</li> <li>• Pelco-P and Pelco-D protocol support</li> <li>• Quick response to control</li> <li>• Advanced additional options</li> <li>• Software change function</li> </ul>       | <p>€ 328,57</p> |
| <p><a href="#"><u>CONV-BG MX Samsung-to-TEB</u></a></p>  | <p style="text-align: center;"><b>Samsung to TEB protocol converter with matrix switcher support Kalatel</b></p> <ul style="list-style-type: none"> <li>• Support for 16 cameras (up to 99 with extension)</li> <li>• USB management and update</li> <li>• Kalatel patch control</li> <li>• Flexible camera selection 1-255</li> <li>• Dual interface for TEB cameras</li> <li>• Samsung-E and Samsung-T protocol support</li> <li>• Quick response to control</li> <li>• Advanced additional options</li> <li>• Software change function</li> </ul> | <p>€ 328,57</p> |





## CONVERTERS OF D-MAX, DAHUA , DYNACOLOR, LILIN, PANASONIC, PELCO, HONNEYWELL, SENSORMATIC COMMUNICATION PROTOCOLS

|   |  |  |
|---|--|--|
| <a href="#"><u>CONV-AG Pelco Merger</u></a><br><br>        | <b>Merger of the Pelco-D and Pelco-P protocol</b> <ul style="list-style-type: none"> <li>• 2 RS-485 input ports</li> <li>• 1 RS-485 output port</li> <li>• Automatic protocol detection</li> <li>• Pelco-P and Pelco-D protocol support</li> <li>• Wide supply voltage range</li> <li>• Collision elimination</li> <li>• Priorities setting</li> <li>• Watchdog controlling the software</li> </ul>                    | <p style="text-align: right;">€ 178,57</p> |
| <a href="#"><u>CONV-AG Pelco-to-Dynacolor</u></a><br><br>  | <b>Pelco to Dynacolor protocol converter</b> <ul style="list-style-type: none"> <li>• Support for 16 cameras (up to 99 with extension)</li> <li>• USB management and update</li> <li>• Flexible camera selection</li> <li>• Pelco-P and Pelco-D protocol support</li> <li>• Dynacolor DSCP protocol</li> <li>• Advanced additional options</li> <li>• Software change function</li> </ul>                              | <p style="text-align: right;">€ 250,00</p> |
| <a href="#"><u>CONV-AG Dynacolor-to-Pelco</u></a><br><br> | <b>Dynacolor to Pelco protocol converter</b> <ul style="list-style-type: none"> <li>• Support for 16 cameras (up to 99 with extension)</li> <li>• USB management and update</li> <li>• Flexible camera selection</li> <li>• Pelco-P and Pelco-D protocol support</li> <li>• Dynacolor DSCP protocol</li> <li>• Advanced additional options</li> <li>• Software change function</li> </ul>                              | <p style="text-align: right;">€ 250,00</p> |
| <a href="#"><u>CONV-AG Pelco-to-Kalatel</u></a><br><br>  | <b>Pelco to Kalatel protocol converter</b> <ul style="list-style-type: none"> <li>• Support for 16 cameras (up to 99 with extension)</li> <li>• USB management and update</li> <li>• Flexible camera selection</li> <li>• Pelco-P and Pelco-D protocol support</li> <li>• Advanced additional options</li> <li>• Software change function</li> </ul>   | <p style="text-align: right;">€ 202,38</p> |
| <a href="#"><u>CONV-AG Kalatel-to-Pelco</u></a><br><br>  | <b>Kalatel to Pelco protocol converter</b> <ul style="list-style-type: none"> <li>• Support for 16 cameras (up to 99 with extension)</li> <li>• USB management and update</li> <li>• Flexible camera selection</li> <li>• Pelco-P and Pelco-D protocol support</li> <li>• Advanced additional options</li> <li>• Software change function</li> </ul>   | <p style="text-align: right;">€ 202,38</p> |
| <a href="#"><u>CONV-AG Pelco-to-Pelco</u></a><br><br>    | <b>Pelco-D to Pelco-P and Pelco-P to Pelco-D protocol converter</b> <ul style="list-style-type: none"> <li>• Support for 16 cameras (up to 99 with extension)</li> <li>• Support 255 cameras in simplified mode</li> <li>• Setup and upgrade via USB</li> <li>• Support of Pelco-P and Pelco-D</li> <li>• Fast control reaction</li> <li>• Activated additional options</li> <li>• Software change function</li> </ul> | <p style="text-align: right;">€ 130,95</p> |







|  |  |          |
|--|--|----------|
| <a href="#"><u>CONV-AG Pelco-to-Panasonic</u></a><br>                       | <b>Pelco to Panasonic protocol converter</b> <ul style="list-style-type: none"> <li>• Support for 16 cameras (up to 99 with extension)</li> <li>• USB management and update</li> <li>• Compatibility with WV-CS850 / 950</li> <li>• Pelco-P and Pelco-D protocol support</li> <li>• Quick response to control</li> <li>• Advanced additional options</li> <li>• Software change function</li> </ul>  | € 250,00 |
| <a href="#"><u>CONV-AG Pelco-to-Samsung</u></a><br>                         | <b>Pelco to Samsung protocol converter</b> <ul style="list-style-type: none"> <li>• Support for 16 cameras (up to 99 with extension)</li> <li>• USB management and update</li> <li>• Pelco-P and Pelco-D protocol support</li> <li>• Samsung-T and Samsung-E protocol support</li> <li>• Quick response to control</li> <li>• Advanced additional options</li> <li>• Software change function</li> </ul>   | € 250,00 |
| <a href="#"><u>CONV-AG Pelco-to-Sensormatic/American Dynamics</u></a><br>   | <b>Pelco to Sensormatic/American Dynamics protocol converter</b> <ul style="list-style-type: none"> <li>• RS-232 / RS-485 ports</li> <li>• Support for 8 cameras (up to 99 with extension)</li> <li>• Support for 128 cameras in simplified mode</li> <li>• USB management and update</li> <li>• Flexible camera selection</li> <li>• Pelco-P and Pelco-D protocol support</li> <li>• Advanced additional options</li> <li>• Software change function</li> </ul>   | € 250,00 |
| <a href="#"><u>CONV-AG Sensormatic/American Dynamics-to-Pelco</u></a><br> | <b>Sensormatic/American Dynamics to Pelco protocol converter</b> <ul style="list-style-type: none"> <li>• RS-232 / RS-485 ports</li> <li>• Support for 8 cameras (up to 99 with extension)</li> <li>• Support for 128 cameras in simplified mode</li> <li>• USB management and update</li> <li>• Flexible camera selection</li> <li>• Pelco-P and Pelco-D protocol support</li> <li>• Advanced additional options</li> <li>• Software change function</li> </ul>   | € 250,00 |
| <a href="#"><u>CONV-BG HikVision-to-D-Max</u></a><br>                     | <b>HikVision to D-Max protocol converter</b> <ul style="list-style-type: none"> <li>• Support for 255 cameras</li> <li>• Support for D-Max matrix switcher for up to 64 monitors</li> <li>• USB management and update</li> <li>• Flexible camera selection</li> <li>• Configurable D-Max/Pelco camera protocols</li> <li>• Free global joystick correction function</li> <li>• Software change function</li> </ul>   | € 328,57 |
| <b>OTHER CONVERTERS</b>  |  |          |
| <a href="#"><u>CONV POS-DVR</u></a><br>                                   | <b>Converter for industrial scales and DVR recorders</b> <ul style="list-style-type: none"> <li>• RS-232 / RS-485 ports</li> <li>• Broad bandwidth range</li> <li>• Many ways to detect packets</li> <li>• Cutting out any fragments of data</li> <li>• Adding data at the end and beginning of the package</li> <li>• Adding a name to the package</li> <li>• Detecting changes in packages</li> <li>• Filtering repetitive packets</li> <li>• HEX and ASCII data preview monitor</li> <li>• Configuration via PC software</li> </ul> | € 202,38 |










| ADDITIONAL SOFTWARE  |   |          |
|--|---|----------|
| <a href="#"><u>Address Shift</u></a><br>                    | <b>License activating the Address Shift option</b> <ul style="list-style-type: none"> <li>• Compatibility with AG and BG series converters</li> <li>• Activation using the license code</li> <li>• Available for all cameras</li> <li>• Lifetime activity</li> <li>• Full flexibility in assigning addresses</li> </ul>   | € 29,76  |
| <a href="#"><u>Advanced Joystick Correction</u></a><br>     | <b>License activating the Advanced Joystick Correction option</b> <ul style="list-style-type: none"> <li>• Compatibility with AG and BG series converters</li> <li>• Activation using the license code</li> <li>• Available for all cameras</li> <li>• Lifetime activity</li> <li>• Separate settings for each camera</li> <li>• Separate settings for PAN and TILT</li> </ul>  | € 29,76  |
| <a href="#"><u>Firmware Upgrader / Configurator</u></a><br> | <b>Program for configuring and updating Ewimar devices</b> <ul style="list-style-type: none"> <li>• Connection via USB or COM ports</li> <li>• In Polish and English</li> <li>• Control via commands</li> <li>• Direct access to the manual</li> <li>• Configuration reading</li> <li>• View available device commands</li> </ul>   | € -      |
| USB MOUSE EXTENDER   |   |          |
| <a href="#"><u>MUSB-1/1 v3.2</u></a><br>                  | <b>Active mouse extension allows you to control one device at distances up to 1200m</b> <ul style="list-style-type: none"> <li>• USB Standard: 1.2 / 2.0</li> <li>• Baud rate: 9600 baud</li> <li>• Transmission on one pair of twisted pair</li> <li>• 1 device support</li> <li>• Transmission range up to 1200 m</li> <li>• Includes transmitter, receiver, power supply, USB cable and an optical mouse</li> <li>• The mouse is controlled in real time</li> <li>• Compatible with fiber optic systems and wireless telemetry systems</li> <li>• Wireless mouse support</li> <li>• Dimensions transmitter: 87 x 28 x 51 (mm)</li> </ul>   | € 103,81 |
| <a href="#"><u>MUSB-1/1/So v3.2</u></a><br>               | <b>Active addressable mouse extension with optical separation allowing control of 1 device over distances up to 1200m</b> <ul style="list-style-type: none"> <li>• USB Standard: 1.2 / 2.0</li> <li>• Baud rate: 9600 baud</li> <li>• Transmission on one pair of twisted pair</li> <li>• Support for 1 device</li> <li>• Optical separation: elimination of industrial disturbances resulting from potential differences</li> <li>• Overvoltage protection up to 600W</li> <li>• Transmission range up to 1200 m</li> <li>• Included transmitter and addressable receiver with the possibility of expansion with an additional receiver, power supply, USB cable and optical mouse</li> <li>• The mouse is controlled in real time</li> <li>• Compatible with fiber optic systems and wireless telemetry systems</li> <li>• Wireless mouse support</li> <li>• Dimensions transmitter: 87 x 28 x 51 (mm)</li> </ul> | € 117,85 |

|   |   |                 |
|---|---|-----------------|
| <p><b><u>MUSB-4/1/So v3.2</u></b></p>  | <p><b>Active addressable mouse extension with optical separation allowing control of up to 8 devices over distances up to 1200m</b></p> <ul style="list-style-type: none"> <li>• USB Standard: 1.2 / 2.0</li> <li>• Baud rate: 9600 baud</li> <li>• Transmission on one pair of twisted pair</li> <li>• Supports up to 4 devices with the possibility of extending up to 8</li> <li>• Optical separation: elimination of industrial disturbances resulting from potential differences</li> <li>• Overvoltage protection up to 600W</li> <li>• Transmission range up to 1200 m</li> <li>• Included transmitter and addressable receiver with the possibility of expansion with an additional receiver, power supply, USB cable and optical mouse</li> <li>• The mouse is controlled in real time</li> <li>• Compatible with fiber optic systems and wireless telemetry systems</li> <li>• Wireless mouse support</li> <li>• Dimensions transmitter: 87 x 28 x 51 (mm)</li> </ul> | <p>€ 151,43</p> |
| <p><b><u>MUSB-TX</u></b></p>           | <p><b>Additional MUSB transmitter that allows you to control more than one mouse</b></p> <ul style="list-style-type: none"> <li>• Allows you to control devices with more than one mouse</li> <li>• Works with available MUSB sets</li> <li>• Transmission range up to 1200 m</li> <li>• USB Standard: 1.2 / 2.0</li> <li>• Baud rate: 9600 baud</li> <li>• Transmission on one pair of twisted pair</li> <li>• Wireless mouse support</li> <li>• Dimensions: 87 x 28 x 51 (mm)</li> </ul>  | <p>€ 51,90</p>  |
| <p><b><u>MUSB-RX/So</u></b></p>      | <p><b>Single-channel extension with separation dedicated to MUSB</b></p> <ul style="list-style-type: none"> <li>• USB standard: 1.2, 2.0</li> <li>• 1 device support</li> <li>• Support for addresses from 1 to 8</li> <li>• Optical separation: elimination of industrial disturbances resulting from potential differences</li> <li>• Overvoltage protection up to 600W</li> <li>• Transmission range up to 1200 m</li> <li>• Cooperation with MUSB-1/1/So and MUSB-4/1/So</li> </ul>   | <p>€ 79,52</p>  |
| <p><b><u>MUSB-RX4/So</u></b></p>     | <p><b>Four-channel extension with optical separation dedicated to MUSB</b></p> <ul style="list-style-type: none"> <li>• USB Standard 1.2 / 2.0</li> <li>• Supports up to 4 devices</li> <li>• Address support 5-8</li> <li>• Optical separation: elimination of industrial disturbances resulting from potential differences</li> <li>• Overvoltage protection up to 600W</li> <li>• Transmission range up to 1200 m</li> <li>• Cooperation with MUSB-1/1/So and MUSB-4/1/So</li> </ul>   | <p>€ 103,81</p> |

## RELAYS AND PROTECTION MODULES

|   |  |         |
|---|--|---------|
| <a href="#"><u>UPK-1</u></a><br>   | <b>Single relay module</b> <ul style="list-style-type: none"> <li>• NO / NC relay output</li> <li>• Independent fuse</li> <li>• 12V DC power supply</li> <li>• LED signaling of switching it on.</li> <li>• Available in a strip of 5 modules</li> <li>• Small external dimensions</li> </ul>                                  | € 3,81  |
| <a href="#"><u>UPK-2.1</u></a><br> | <b>Double relay module</b> <ul style="list-style-type: none"> <li>• 2 pairs of NO / NC contacts</li> <li>• Independent fuses for relay contacts</li> <li>• 12V DC power supply</li> <li>• LED signaling of switching it on</li> <li>• Available in a strip of 5 modules</li> </ul>   | € 4,28  |
| <a href="#"><u>UPK-2.2</u></a><br> | <b>Double relay module with two relays</b> <ul style="list-style-type: none"> <li>• NO / NC relay output</li> <li>• Independent fuses for relay contacts</li> <li>• 12V DC power supply</li> <li>• Signaling of switching on the LED</li> <li>• Available in a strip of 5 modules</li> </ul>                                   | € 5,24  |
| <a href="#"><u>MZ1A</u></a><br>   | <b>Securing the battery against discharging</b> <ul style="list-style-type: none"> <li>• Output signaling</li> <li>• AUX+ lock input</li> <li>• Permissible load 5A</li> <li>• Cut-off voltage 10,3V</li> <li>• Power consumption 24mA</li> <li>• Cable length: 30cm</li> </ul>  | € 5,72  |
| <a href="#"><u>LZ-8</u></a><br>  | <b>8-channel power distributor in the housing for CCTV equipment</b> <ul style="list-style-type: none"> <li>• 8 power inputs</li> <li>• DC socket for connecting the power supply</li> <li>• Housing with masking screws</li> <li>• Can be attached to the wall</li> <li>• Each output 1A</li> </ul>                           | € 5,95  |
| <a href="#"><u>LZ-8F</u></a><br> | <b>8-channel power distributor with automatic fuses for CCTV equipment</b> <ul style="list-style-type: none"> <li>• 8 power inputs</li> <li>• DC socket for connecting the power supply</li> <li>• Can be attached to the wall</li> <li>• LED signaling diodes</li> <li>• Automatic fuses</li> <li>• Each output 1A</li> </ul> | € 11,67 |

## INSTALLATION ACCESSORIES

|   |  |                |
|---|--|----------------|
| <p><a href="#"><u>U-BOX</u></a></p>            | <p><b>Pole mount for cameras and surge arresters</b></p> <ul style="list-style-type: none"> <li>• Bracket for mounting on cameras pole and security devices BOX-HD-1-EXT, BOX-PTU-51-EXT/PoE/MINI, BOX-1-PTF-51-EXT/PoE, BOX-2-PTF-51-EXT/PoE</li> <li>• The minimum diameter of 55 mm</li> <li>• Galvanized steel sheet protected with varnish</li> <li>• Cable ties included in diameter 130 - 150 (mm)</li> <li>• Compatible with cameras, including: Dahua, Hikvision, Novus</li> <li>• Dimensions: 150 x 230 x 55 (mm)</li> </ul> | <p>€ 25,72</p> |
| <p><a href="#"><u>BOX-1</u></a></p>            | <p><b>Junction box</b></p> <ul style="list-style-type: none"> <li>• IP66 rated</li> <li>• Waterproof, dustproof</li> <li>• The cover is easy to assemble</li> <li>• Compatible with U-BOX bracket</li> <li>• Dimensions: 114 x 114 x 57 (mm)</li> </ul>  | <p>€ 8,33</p>  |
| <p><a href="#"><u>BOX-2</u></a></p>            | <p><b>Junction box</b></p> <ul style="list-style-type: none"> <li>• IP66 rated</li> <li>• Waterproof, dustproof</li> <li>• The cover is easy to assemble</li> <li>• Compatible with U-BOX bracket</li> <li>• Dimensions: 151 x 117 x 67 (mm)</li> </ul>  | <p>€ 13,10</p> |
| <p><a href="#"><u>BOX-3</u></a></p>          | <p><b>Junction box</b></p> <ul style="list-style-type: none"> <li>• IP66 rated</li> <li>• Waterproof, dustproof</li> <li>• The cover is easy to assemble</li> <li>• Compatible with U-BOX bracket</li> <li>• Dimensions: 190 x 150 x 77 (mm)</li> </ul>  | <p>€ 15,48</p> |
| <p><a href="#"><u>BOX-3-DIN</u></a></p>      | <p><b>Junction box with DIN rail</b></p> <ul style="list-style-type: none"> <li>• IP66 rated</li> <li>• Waterproof, dustproof</li> <li>• The cover is easy to assemble</li> <li>• Compatible with U-BOX bracket</li> <li>• DIN rail included for mounting protection devices</li> <li>• Dimensions: 190 x 150 x 77 (mm)</li> </ul>   | <p>€ 22,62</p> |
| <p><a href="#"><u>PTF-5-BOX</u></a></p>      | <p><b>Plastic housing for modular PTF-54 protection</b></p> <ul style="list-style-type: none"> <li>• Compatible with 4-channel PTF-54 protections</li> <li>• Housing for one 4-channel module</li> <li>• It protects the module against dust and damage</li> <li>• Standalone housing / screwed to the wall</li> <li>• Dimensions: 133 x 82 x 35 (mm)</li> </ul>   | <p>€ 7,62</p>  |
| <p><a href="#"><u>PTU/PTF-5-BOX</u></a></p>  | <p><b>Professional housing for PTU-54 / PTF-54 modules</b></p> <ul style="list-style-type: none"> <li>• Compatible with 4-channel PTU / PTF-54 series</li> <li>• Housing for one 4-channel module</li> <li>• It protects the module against dust and damage</li> <li>• Standalone housing / screwed to the wall</li> <li>• Grounding through cable</li> <li>• Dimensions: 184 x 104 x 48 (mm)</li> </ul>   | <p>€ 22,62</p> |

|   |   |         |
|---|---|---------|
| <a href="#"><u>PTU/PTF-5-BOX-DIN</u></a><br>   | <b>Professional housing for PTU-54 / PTF-54 modules for DIN rail</b> <ul style="list-style-type: none"> <li>• Compatible with 4-channel PTU / PTF-54 series</li> <li>• Housing for one 4-channel module</li> <li>• It protects the module against dust and damage</li> <li>• Standalone / DIN rail housing</li> <li>• Grounding through DIN rail / cable</li> <li>• Dimensions: 152 x 104 x 48 (mm)</li> </ul>  | € 28,33 |
| <a href="#"><u>PTF-6-BOX</u></a><br>           | <b>Plastic housing for modular PTF-64 protection</b> <ul style="list-style-type: none"> <li>• Compatible with 4-channel PTF-64 protections</li> <li>• Housing for one 4-channel module</li> <li>• It protects the module against dust and damage</li> <li>• Standalone housing / screwed to the wall</li> <li>• Dimensions: 133 x 82 x 35 (mm)</li> </ul>   | € 7,62  |
| <a href="#"><u>PTU/PTF-6-BOX</u></a><br>       | <b>Professional housing for PTU-64 / PTF-64 modules</b> <ul style="list-style-type: none"> <li>• Compatible with 4-channel PTU / PTF-64 series</li> <li>• Housing for one 4-channel module</li> <li>• It protects the module against dust and damage</li> <li>• Standalone housing / screwed to the wall</li> <li>• Grounding through cable</li> <li>• Dimensions: 184 x 104 x 48 (mm)</li> <li>• 5 years manufacturer's warranty</li> </ul>                                | € 22,62 |
| <a href="#"><u>PTU/PTF-6-BOX-DIN</u></a><br>  | <b>Professional housing for PTU-64 / PTF-64 modules for DIN rail</b> <ul style="list-style-type: none"> <li>• Compatible with 4-channel PTU / PTF-64 series</li> <li>• Housing for one 4-channel module</li> <li>• It protects the module against dust and damage</li> <li>• Standalone / DIN rail housing</li> <li>• Grounding through DIN rail / cable</li> <li>• Dimensions: 152 x 104 x 48 (mm)</li> <li>• 5 years manufacturer's warranty</li> </ul>                   | € 28,33 |
| <a href="#"><u>LK-MOUNT</u></a><br>          | <b>Angle brackets for mounting panels in a RACK cabinet</b> <ul style="list-style-type: none"> <li>• Intended for patch panels and protection devices</li> <li>• It allows panels to be mounted at an angle of 45 degrees</li> <li>• Mounted in the back of the RACK</li> <li>• Right and left handle included</li> </ul>   | € 15,48 |
| <a href="#"><u>PTU/PTF-5/6-COVER</u></a><br> | <b>Masking cover for PTU / PTF panels</b> <ul style="list-style-type: none"> <li>• Made of powder coated sheet</li> <li>• Fastening to the panel with screws</li> <li>• Designed for PTU and PTF series protection in a RACK housing</li> <li>• Protects devices against dust, unauthorized access and damage</li> </ul>  | € 15,48 |
| <a href="#"><u>PTU/PTF-5-RACK</u></a><br>    | <b>1U metal panel for 19" RACK cabinet for modular PTU / PTF-54 protection</b> <ul style="list-style-type: none"> <li>• Allows to design a panel with any configuration of PTU-54 and/or PTF-54 modules</li> <li>• Installation of 1 to 4 PTU-54 or PTF-54 modules</li> <li>• Safe and trouble-free screw assembly of the modules</li> <li>• Grips for fixing cable ties</li> <li>• Mounting: RACK 19", 1U height</li> </ul>  | € 44,05 |
| <a href="#"><u>PTU/PTF-6-RACK</u></a><br>    | <b>1U metal panel for 19" RACK cabinet for modular PTU / PTF-64 protection</b> <ul style="list-style-type: none"> <li>• Allows to design a panel with any configuration of PTU-64 and/or PTF-64 modules</li> <li>• Installation of 1 to 4 PTU-64 or PTF-64 modules</li> <li>• Safe and hassle-free screw assembly of modules</li> <li>• Holders for fixing cable tie binders</li> <li>• Mounting: RACK 19", 1U height</li> <li>• 5 years manufacturer's warranty</li> </ul> | € 44,05 |





**Manufacturer of surge protection systems**

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