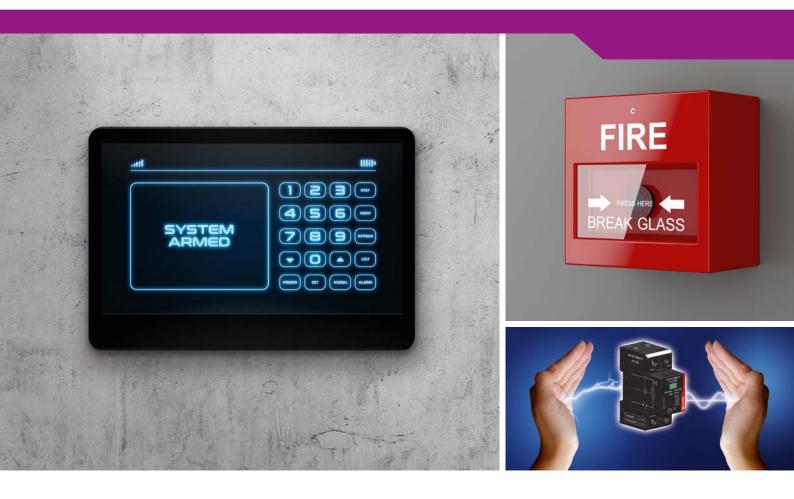


# SOLUTION

Electronic/Fire security/Access control systems Surge protection of security systems



# Why to Protect?

One of the optional components of the buildings is the security systems be they used in a family house, office building, shopping centre, or industrial facility. The rule of thumb is the larger the facility is, the higher risk of potential transfer or overvoltage.

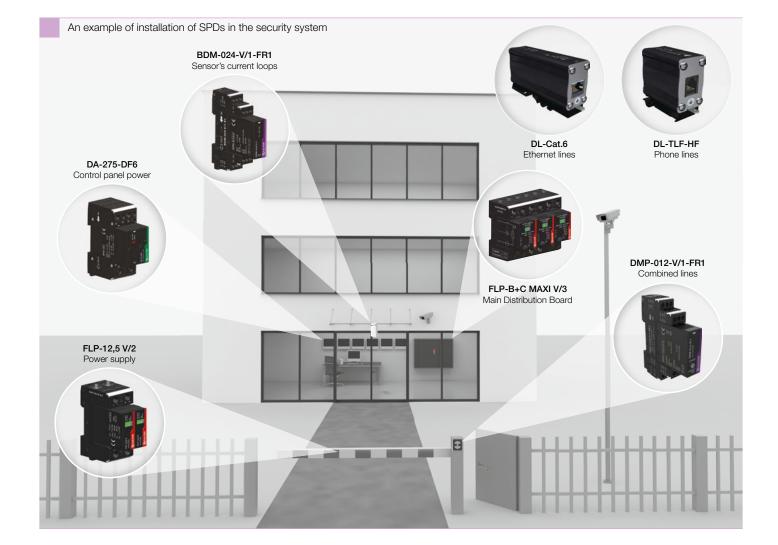
You can imagine the security system (Electronic Alarms, Fire Security Systems or Access Control Systems) as a wide network of sensors, cameras, switches and other minor components where the lengths of the interconnection cables may take up to several hundreds of meters. The induced overvoltage (e.g. due to direct or indirect strike of lightning – LEMP or switching voltage – SEMP) in these long lines may result in damage of the sensors or the

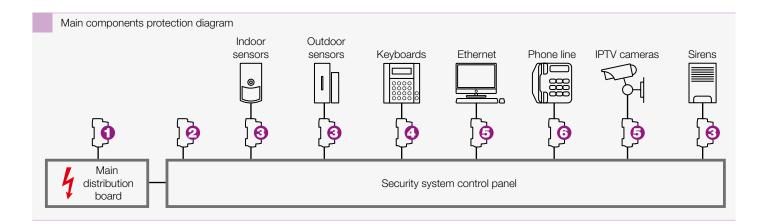
# What to Protect?

- Power supply protection combined with RFI filter
- Sensor's data transmission and power supply lines
- Ethernet and IPTV networks
- Direct phone alarm lines to control panels

whole control unit in addition to issuing of false alarms. Use of additional SPD for the security system is the recommended preventive measure that multiplies its operational reliability and credibility.

The illustration shows an example of choosing and deploying SPD security features for an access system applicable analogously to electronic security and fire systems





# **Recommended SPDs for security systems**

#### BDM-024-V/1-FR1 3

Two-stage overvoltage protection for indoor sensor circular loops (motion IR sensors, door and window magnetic sensors, glass shattering sensor, flood detector, button alarms and emergency pushbuttons, smoke and heat sensors, gas or carbon monoxide leak sensors, and more).

Location	Number of lines	U <sub>c</sub>	I,	l <sub>imp</sub> (D1)	I <sub>n</sub> (C2)	U <sub>p</sub> (C3) core-core	Floating	Ordering number
ST 1+2+3	1	36 V DC	1 A	2.5 kA	10 kA	46 V	Yes	8595090554264

# DMP-012-V/1-FR1

Surge protection for the RS485 communication line combined with power supply between the switchboard and its control component (RFID reader, keyboard, board, control panel, etc.).

Location	Number of lines	U <sub>c</sub>	l,	I <sub>n</sub> (C2)	U <sub>p</sub> (C3) core-PE/GND	Floating	Ordering number
ST 2+3	1 two-core	16 V DC	1 A	10 kA	22 V	Yes	8595090557982

## DL-Cat.6 5

Surge protection for Ethernet communication line between the control unit and local network/PC/router.

Location	Number of lines	U <sub>c</sub>	ار ار	I <sub>n</sub> (C2) (8/20 μs)	U <sub>p</sub> (C3) core-core	U <sub>p</sub> (C3) core-PE	Ordering number
ST 3	1	8.5 V DC	0.5 A	1.6 kA	65 V	350 V	8595090536031

## DL-TLF-HF 6

Surge protection for phone line connected directly to electronic security/fire system for automatic alarm reporting.

Location	U <sub>c</sub>	l <sub>u</sub>	I <sub>n</sub> (C2) (8/20 μs)	U <sub>p</sub> (C3) core-core	U <sub>p</sub> (C3) core-PE	f	Ordering number
ST 2+3	162 V DC	0.06 A	2.5 kA	240 V	400 V	45 MHz	8595090561507

# FLP-B+C MAXI V/3 1

Powerful lightning current and surge arrester, SPD type 1 and 2, basic 230 V AC power supply protection.

Connection	Suitable networks	U	l <sub>imp</sub> (10/350 μs)	I <sub>n</sub> (8/20 μs)	I <sub>max</sub> (8/20 μs)	Remote signalling	Ordering number
3+0	TN-C	275 V AC	25 kA	30 kA	60 kA	No	8595090550938

# FLP-12,5 V/2

Lightning current and surge arrester, SPD type 1 and 2 for 230 V AC power supply protection e.g. power of entry/exit barriers.

Connection	Suitable networks	U <sub>c</sub>	l <sub>imp</sub> (10/350 μs)	I <sub>n</sub> (8/20 μs)	I <sub>max</sub> (8/20 μs)	Remote signalling	Ordering number
2+0	TN-S	275 V AC	12.5 kA	30 kA	60 kA	No	8595090538097

#### DA-275-DF6 2

Surge protection, SPD type 3 with integrated RFI filter installed in the switchgear of the security system, or right next to the protected device.

Connection	Suitable networks	U <sub>c</sub>	l,	I <sub>n</sub> (L+N-PE) (8/20 μs)	U <sub>oc</sub> (L+N-PE)	Remote signalling	Ordering number
Symmetric	TN, TT	275 V AC	6 A	5 kA	10 kV	No	8595090557173

# Sales and technical support:

### SALTEK TRADE s.r.o.

Vodňanská 1419/226 198 00 Praha 9 - Kyje Czech Republic Phone: +420 272 942 470 Fax: +420 267 913 411 E-mail: trade@saltek.cz www.saltek.eu/en

# Manufacture and headquarter:

# SALTEK s.r.o.

Drážďanská 85 400 07 Ústí nad Labem Czech Republic Phone: +420 475 655 511 Fax: +420 475 622 213 E-mail: info@saltek.cz www.saltek.eu

Distributor:
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