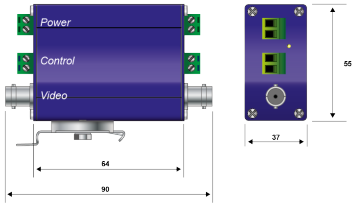
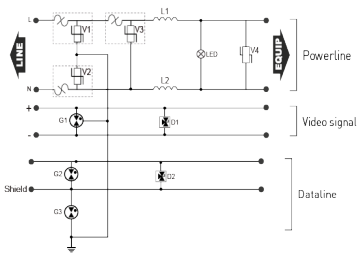
Protection of video surveillance systems against overvoltages

MSP-VM24







G: Gas tube
D: Clamping diode network
V: Varistor
LED: Status indicator
L: Inductor

Electrical Characteristics		
SPD type	IEC	2+3
Network		24 Vac/Vdc
Nominal line voltage	Un	24 Vac/Vdc
Max. DC operating voltage	Uc	30 Vac/Vdc
Insertion loss		< 0.1 dB
Max. load current @25°C	IL	5 A
Max. load current @25°C	IL	300 mA
Nominal discharge current *15 x 8/20 µs impulses*	In	5 kA
Max. discharge current *max. withstand @ 8/20 µs by pole*	Imax	10 kA
Nominal discharge current *C2 Category*	In	2.5 kA
Withstand on Combination waveform IEC 61643-11 *Class III test: 1.2/50µs - 8/20µs*	Uoc	10 kV / 5 kA
Protection mode(s)		Common/Differential mode
Protection level *@ In (8/20µs)*	Up	0.22 kV
Protection Level *C3 (10/1000µs), 300 applications@10 A, Y-Y (Line/Line)*	Up	20 V
Protection Level *C3 (10/1000µs), 300 applications@10 A, Y-C (Line/Earth)*	Up	20 V
Protection level L/N *@ In (8/20µs)*	Up L/N	0.22 kV
Protection level L/PE *@ In (8/20µs)*	Up L/PE	0.22 kV
ELEC		
Network		Signal video
ELEC		
Max. DC operating voltage	Uc	6 Vdc
ELEC		
Max. frequency	f max.	100 Mhz
ELEC		
Insertion loss		< 1dB
ELEC		
Protection level *@ In (8/20µs)*	Up	20 V
ELEC		
Network		1 pair signal 0-5 V
ELEC		
Max. DC operating voltage	Uc	8 Vdc
ELEC		
Max. frequency	f max.	16 MHz
ELEC		
Insertion loss		< 1dB
ELEC		
Max. discharge current *max. withstand @ 8/20 µs by pole*	Imax	5 kA
ELEC		
Nominal discharge current*C2 Category*	In	2.5 kA
ELEC		
Protection level *@ In (8/20µs)*	Up	20 V
Mechanical Characteristics		
Technology		MOV+GDT
Connection to Network		By screw terminals: 2.5mm² max.
Format		DIN rail or flange
Mounting		DIN rail or plate (flange)
Housing material		Anodized aluminum
Operating temperature	Tu	-40/+85°C
Protection rating		IP20
Failsafe mode		Disconnection and Power cut off

MSP-VM24

Disconnection indicator		Green LED OFF and line cut off
Operating indicator		Green led(s) on
Dimensions		See diagram
Weight		0.184 kg
Disconnectors		
Thermal disconnector		Internal
Standards		
Standards compliance		IEC 61643-11 / EN 61643-11 / UL1449 ed.5
Part number		
420402		