

## Combination protection device 2in1 for CCTV camera systems



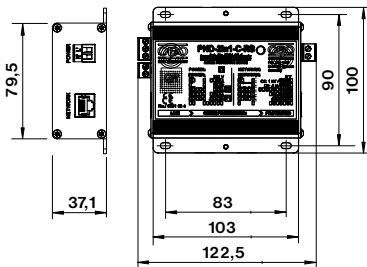
Type	Maximum continuous voltage (L-N) V	Maximum discharge current (8/20 μs) kA	Pack. pcs	Weight kg/100 pcs.	Item No.
PND-2in1-C-RS	230	10	1	27.000	5081064

Combination protection device  
Data cable protection devices for coaxial and IP-based TV / camera systems

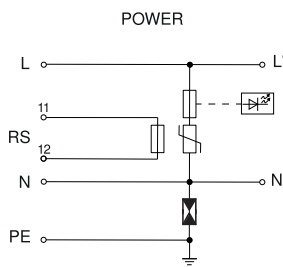
- Protection of power and data interface in a single device
- In aluminium housing
- Simple mounting with adapter plug
- Two-stage protection circuit
- Two-pole power connection for the power interface
- RJ45 connection for the data interface
- With remote signalling (RS) and LED operation display
- Incl. hat rail fastening set

Application: Protection of CCTV, video signals; (IP) cameras and/or TV systems

### Dimensions



### Connection options



### PND-2in1-C-RS

Temperature range	-20 - +80 °C	
Protection rating	IP20	
Earthing via:	Connection cable / hat rail	
Lightning protection zone LPZ	0 2	
<b>Power</b>		
SPD to IEC 61643-11	Class I+II	
SPD to EN 61643-11	Type 1+2	
Maximum continuous voltage (L-N)	$U_c$	230 V
Rated current	$I_L$	10 A
Voltage protection level	$U_p$	<1,2 kV
Idle voltage	$U_{oc}$	10 kV
Nominal discharge current (8/20 μs)	$I_{n/L-N}$	5 kA
Maximum discharge current (8/20 μs)	$I_{max}$	10 kA
Impulse discharge current (10/350)	$I_{imp}$	1.5 kA
<b>Network</b>		
Maximum continuous voltage AC	$U_c$	5.6 V
Maximum continuous voltage DC	$U_c$	8 V
Category	Type 1+2 / D1+C2	
Impulse durability wire-wire	C1: 1 kV / 0,5 kA (8/20μs)	
Impulse durability wire-earth	C2: 4 kV / 2 kA (8/20μs)	
Protection level wire-wire	<40 V	
Protection level wire-earth	<600 V	
Frequency range	0 - 100 MHz	
Shielding connection available	Yes	
Shield connection	Direct	
Testing standard	IEC 61643-21	

## Combined protection device 3in1 for CCTV camera systems



Type	Maximum continuous voltage (L-N) V	Maximum discharge current (8/20 μs) kA	Pack. pcs	Weight kg/100 pcs.	Item No.
PND-3in1-C-RS	230	10	1	29.900	5081066

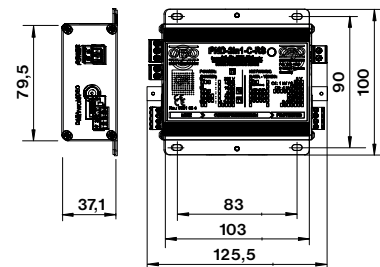
Combination protection device  
Data cable protection devices for coaxial and IP-based TV / camera systems

- Protection of power and data interfaces in a single device
- In aluminium housing
- Simple mounting with adapter plug
- Two-stage protection circuit
- Two-pole power connection for the power interface
- Screwless terminal and BNC connection for the data and video interface
- With remote signalling (RS) and LED operation display
- Incl. hat rail fastening set

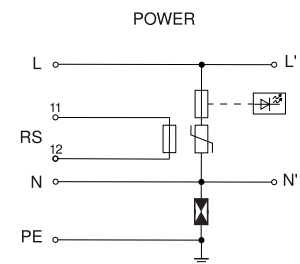
Application: Protection of CCTV, video signals; (IP) cameras and/or TV systems



Dimensions



Connection options



PND-3in1-C-RS	
Lightning protection zone LPZ	0 2
Earthing via:	Connection cable / hat rail
Protection rating	IP20
<b>Power</b>	
SPD to IEC 61643-11	Class I+II
SPD to EN 61643-11	Type 1+2
Maximum continuous voltage (L-N) $U_c$	230 V
Rated current $I_L$	10 A
Voltage protection level $U_p$	<1,2 kV
Nominal discharge current (8/20 μs) $I_{n/L-N}$	5 kA
Maximum discharge current (8/20 μs) $I_{max}$	10 kA
Impulse discharge current (10/350) $I_{imp}$	1.5 kA
<b>Data</b>	
Maximum continuous voltage AC $U_c$	5.65 V
Maximum continuous voltage DC $U_c$	8 V
SPD to IEC 61643-21	Class I+II / D1+C2
Category	Type 1+2 / D1+C2
Impulse durability wire - wire	C2: 10 kV / 5 kA (8/20μs)
Impulse durability wire - earth	C2: 10 kV / 5 kA (8/20μs)
Lightning impulse current (10/350) $I_{imp}$	1 kA
Protection level wire-earth	<450 V
Protection level wire-wire	<65 V
Frequency range	0-100 MHz
<b>Video</b>	
Maximum continuous voltage AC $U_c$	5.65 V
Maximum continuous voltage DC $U_c$	8 V
SPD to IEC 61643-21	Class I+II / D1+C2
Category	Type 1+2 / D1+C2
Impulse durability wire - earth	C2: 10 kV / 5 kA (8/20μs)
Impulse durability wire - wire	C2: 10 kV / 5 kA (8/20μs)
Lightning impulse current (10/350) $I_{imp}$	1 kA
Protection level wire-wire	<90 V
Protection level wire-earth	<150 V
Frequency range	0-100 MHz
Screen connection	Yes
Screening	Direct
Temperature range	-20 - +80 °C