Lightning and surge protection for closed-circuit television systems (CCTV)



The PND combination protection devices as protection of power, data and control cables in one device



- 3-pin connection for the power interface
- Simple mounting with adapter plugs
- Two-port protection circuit

A single device for everything

To provide complete protection against surge voltages for cameras, the lightning protection concept requires that both the power and data cables must be protected.

The arresters are classified according to type 2+3 and can be used in the lightning protection zones $1 \rightarrow 3$. Both devices have an LED on the top housing side for error signalling.

The printed QR code can be scanned with a smartphone or tablet PC, meaning that the mounting instructions are available at any time.



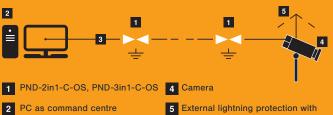
Protects the 230 V power cable,

the RS485 data cable and the

video BNC connection

PND-3in1-C-OS

PND-2in1-C-OS Protects the 230 V power cable and the RJ45 data cable



3 Power supply and data/video cable

5 External lightning protection with protection angle

Combination protection, 2in1 and 3in1, for closed-circuit television systems (CCTV)







Combination protection devices

Additional benefits

- RJ45 connection for the data interface or screw terminals and BNC connection for the data and video interface
- With error signalling (OS) via the LED operating display
- · In aluminium housing
- · Incl. DIN rail fastening set

Application:

To protect CCTV, video signals; (IP) cameras and TV systems

Туре	PND-2in1-C-OS	PND-3in1-C-OS
	5081070	5081072
Mounting type	Mounting plate, DIN rail	Mounting plate, DIN rail
	Power	
Connection	3-pin (L, N, PE)	
Maximum continuous voltage U_{c}	255 V AC	
Nominal voltage U _N	230 V AC	
Protection level $U_{P (L-PE) / (N-PE) / (L-N)}$	≤ 1.3 kV	
Open circuit voltage of the combination wave generator U_{oc}	10 kV	
Rated load current I_ AC	16 A	
Nominal discharge current In (8/20)	5 kA	
Max. discharge current I _{max (8/20)}	10 kA	
	RJ45	DATA/RS485
Frequency range	0–100 MHz	0–100 MHz
Maximum continuous operating voltage $\rm U_{CDC}$	8 V	8 V
Protection level U _{P line-line}	< 40 V	< 65 V
Protection level U _{p line-earth}	< 450 V	< 450 V
Rated current I_ DC	1 A	0.4 A
Nominal discharge current In (8/20) line-line	C1: 0.3 kV/0.15 kA	
Nominal discharge current In (8/20) line-earth	C2: 3 kV/1.5 kA	C2: 10 kV/5 kA
Impulse discharge current I imp (10/350)	D1: 0.5 kA	D1: 1 kA
	Video/BNC	
Maximum continuous operating voltage $\rm U_{c \tiny DC}$		8 V
Protection level U _{P line-line}		< 90 V
Protection level U _{p line-earth}		< 150 V
Rated current I_ DC		0.4 A
Nominal discharge current In (8/20) line-earth		C2: 10 kV/5 kA
Impulse discharge current I mp (10/350)		D1: 1 kA

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