

# Technical data sheet

Combination protection for two-core systems with HF applications 5 V  
Item no. 5098571



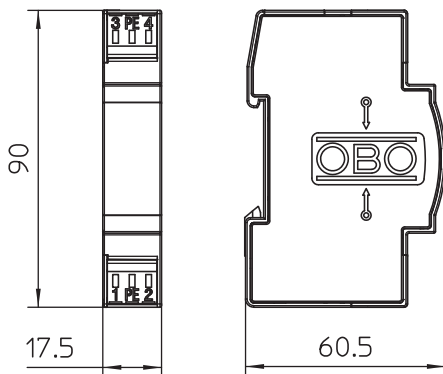
Surge protection for use in measuring, control and regulation systems.

- Basic, medium and fine protection
- Two-stage protection circuit with high lightning current carrying capacity
- High transmission frequency up to 100 MHz
- Suitable for all bus systems (e.g. Profibus)
- With installation-friendly, screwless connection terminals
- In space-saving 17.5 mm grid

Application: Multipurpose use on any 35 mm DIN profile rail in every commercially available distribution housing.



## Dimensions



## Master data

Item no.	5098571
Type	FRD 5 HF
Description 1	Lightning barrier
Description 2	with HF applications
Dimension	5V AC
Smallest sales unit (VG)	1,00 Piece
Weight	4,40 kg/100 pc.

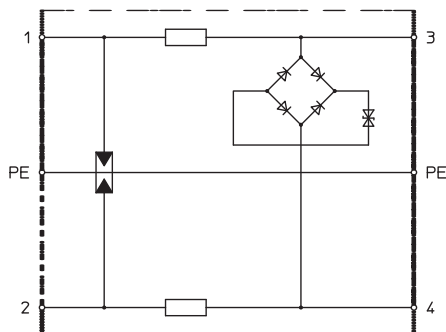
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### Technical data



Arrestor monitoring	<input type="checkbox"/>
Category	Type 1+2+3 / D1+C2+C1
SPD to IEC 61643-21	Class I+II+III / D1+C2+C1
Connection cross-section, flexible	0,14 - 2,50 mm <sup>2</sup>
Connection cross-section, multi-wire	0,14 - 2,50 mm <sup>2</sup>
Connection cross-section, rigid	0,14 - 2,50 mm <sup>2</sup>
Number of poles	2,00
Insertion loss	≤3 dB
Earthing via:	Terminal
Explosion-tested version	<input type="checkbox"/>
Telecommunications contact	<input type="checkbox"/>
Total discharge current (8/20)	18 kA
Total discharge current (10/350)	D1: 6 kA
Frequency range	0 - 100 MHz
Frequency range	0,00 - 100,00 MHz
Cut-off frequency	100,00 MHz
Maximum continuous voltage AC	4,00 V
Maximum continuous voltage DC	6,00 V
Insulation resistance	>10 MΩ
Impulse discharge current (10/350)	3,00 kA
Nominal discharge current (8/20 μs)	9,00 kA
Capacity (wire-wire)	<40 pF
Capacity (wire-earth)	<40 pF
Lightning protection zone LPZ	0→3
Nominal voltage	5,00 V
Rated current	0,45 A
Nominal load current AC	0,32 A
Nominal load current DC	0,45 A
Installation type	DIN rail 35 mm
Testing standard	IEC 61643-21
Shielding connection available	No
Protection rating	IP20
Protection level wire-wire	<90 V
Protection level wire-earth	<650 V
Series resistance per wire	2,2 Ω ± 10 %
Connection system	Terminal
Impulse durability wire-wire	C2: 18 kV / 9 kA (8/20μs)
Impulse durability wire-earth	C2: 18 kV / 9 kA (8/20μs)
Temperature range	-40+80 °C
Division unit TE (17.5 mm)	1
Approvals	UL