

# RSP-RS485

overvoltage arresters for bus systems

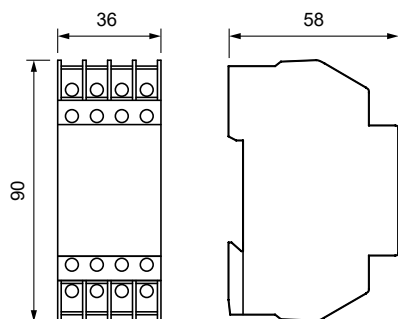


**NEW**

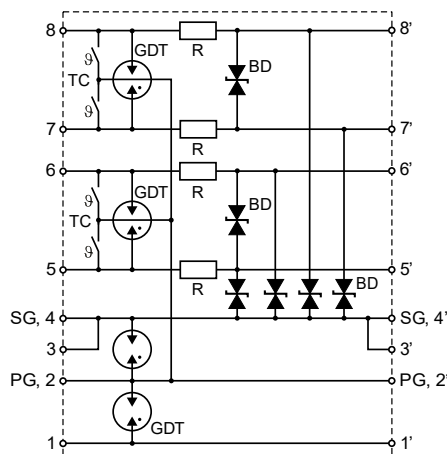
- IEC/EN category: D1/C1/C2/C3
- Application sites: fieldbus systems (protocols RS 485, RS 422, V.11)
- Protection elements: BD + GDT
- Number of protected pairs: 2 (4 conductors)
- Cover: compact (16 terminals)
- Compliance with standards: IEC/EN 61643-21

Type of arrester		RSP-RS485	
<b>Electrical data</b>			
Rated operating voltage	$U_n$	5 V DC	
Maximum continuous operating voltage	$U_c$	6 V DC	
Rated load current at 25 °C	$I_L$	500 mA	
C2 discharge current rated (8/20 $\mu$ s) (line-line)	$I_n$	5 kA	
D1 current impulse (10/350 $\mu$ s) (line-line)	$I_{imp}$	2,5 kA	
Residual voltage at 5 kA (8/20 $\mu$ s) (line-line)	$U_{res}$	20 V	
Rated spark overvoltage (5, 6, 7 & 8-4, SG), (5-6 & 7-8) (5, 6, 7 & 8-2, PG)		6,5...8,5 V 78...116 V	
Response time overvoltage protection (5, 6, 7, 8, SG)	$t_A$	< 1 ns	
Thermal protection (5, 6, 7, 8)		yes	
Insulation resistance of the protection	$R_{iso}$	6 k $\Omega$	
Serial resistance per path	$R$	1,7...1,9 $\Omega$	
Transverse capacitance (line-line)	$C$	< 2 nF	
Cut-off frequency	$f_G$	> 1 MHz	
<b>General data</b>			
Ambient temperature (operating)	$T_a$	-40...+80 °C	
Cross section of cables connected to terminals		max. 2 x 2,5 mm <sup>2</sup> (stranded)	
Terminal screw torque		max. 2 Nm	
Mounting		direct on 35 mm rail mount (EN 60715)	
Cover protection category		IP 20 (EN 60529)	
Cover material		thermoplastic; extinguishing degree V-0	
Dimensions (L x W x H)		90 x 36 x 58 mm	
Weight		114 g	

Dimensions



Connection diagram



Legend: BD (bi-directional TVS diode), GDT (gas discharge tube), PG (protective grounding), R (resistor), SG (signal grounding), TC (thermo-clip)