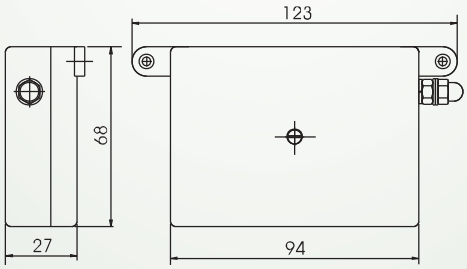
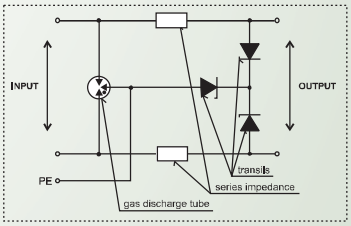
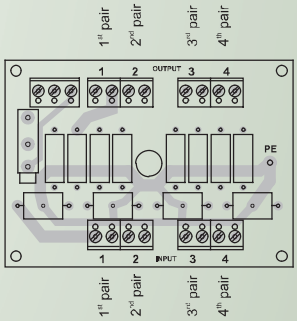
DTNVB 0,5-L

DTNVB 0,5-L is a complex range of surge protection devices designed for protection of data, communication, measuring and control lines against surge effects. These surge protection devices are recommended for use in the Lightning Protection Zones Concept at the boundaries of LPZ $0_{A(B)}$ - 1 according to EN 62305. All types provide effective protection of connected equipment against common mode and differential mode surge effects according to IEC 61643-21. The nominal current of individual protected lines I_N < 0,5A.

These devices consist of gas discharge tubes, series impedance and transils. The number of protected pairs is optional (1-4). These devices are produced for nominal voltage within the range of 6V-48V. Maximum discharge current is 20kA (8/20).







Technical data Number of protected pairs	1 2 3 4	DTNVB 1/6/0,5-L DTNVB 2/6/0,5-L DTNVB 3/6/0,5-L DTNVB 4/6/0,5-L	DTNVB 1/12/0,5-L DTNVB 2/12/0,5-L DTNVB 3/12/0,5-L DTNVB 4/12/0,5-L	DTNVB 1/24/0,5-L DTNVB 2/24/0,5-L DTNVB 3/24/0,5-L DTNVB 4/24/0,5-L	DTNVB 1/48/0,5-L DTNVB 2/48/0,5-L DTNVB 3/48/0,5-L DTNVB 4/48/0,5-L
Nominal voltage	U_N	6 V	12 V	24 V	48 V
Max. continous operating voltage	U_C	7,2 V	14,4 V	28,6 V	57,6 V
Nominal current	I_N	0,5 A	0,5 A	0,5 A	0,5 A
D1 Total lightning impulse current (10/350)	I_{total}	5 kA	5 kA	5 kA	5 kA
D1 Lightning impulse current (10/350) line/PE	I_{imp}	2,5 kA	2,5 kA	2,5 kA	2,5 kA
C2 Max. discharge current (8/20)	I_{max}	20 kA	20 kA	20 kA	20 kA
Nominal discharge current (8/20)	I_n	1 kA	1 kA	1 kA	1 kA
Voltage protection level at I_n (8/20)	U_p	15 V	28 V	64 V	160 V
Voltage protection level at 1kV/µs	U_p	9 V	18 V	34 V	66 V
Response time	t_A	< 30 ns	< 30 ns	< 30 ns	< 30 ns
Data rate		1 MBit/s	1 MBit/s	1 MBit/s	1 MBit/s
Series impedance per line		4,7 µH	4,7 µH	4,7 µH	4,7 µH
Parasitic capacitance	C	1,5 nF	1,5 nF	1,5 nF	1,5 nF
Operating temperature range	ϑ	-40°C ÷ + 80°C	-40°C ÷ + 80°C	-40°C ÷ + 80°C	-40°C ÷ + 80°C
Recommended cable cross-section		0,25 - 1,5 mm²	0,25 - 1,5 mm²	0,25 - 1,5 mm²	0,25 - 1,5 mm²
Category tested acc. to IEC 61643:21-2000		A2, B2, C2, C3, D1	A2, B2, C2, C3, D1	A2, B2, C2, C3, D1	A2, B2, C2, C3, D1
Article number		54 101 54 201 54 301 54 401	54 102 54 202 54 302 54 402	54 104 54 204 54 304 54 404	54 106 54 206 54 306 54 406

MJ/02