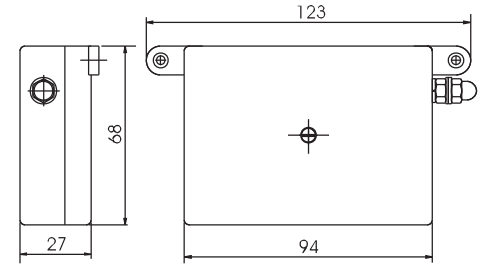
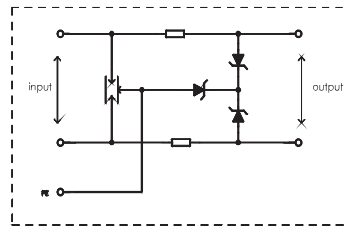
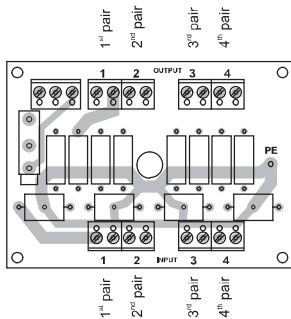
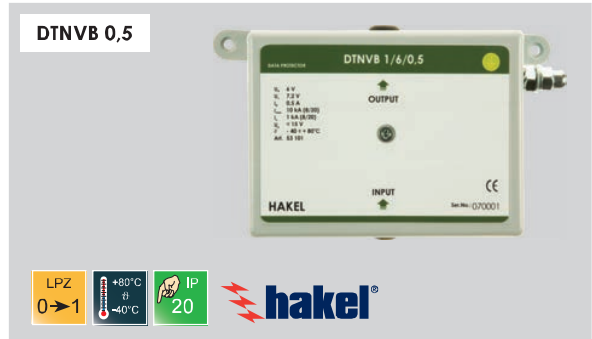


SURGE PROTECTION DEVICE - SURGE PROTECTION DEVICE - SURGE PROTECTION DEVICE - SURGE PROTECTION DEVICE - SURGE PROTECTION DEVICE - SURGE PROTECTION DEVICE - SURGE PROTECTION DEVICE - SURGE PROTECTION DEVICE - SURGE PROTECTION DEVICE

DTNVB 0,5 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 10kA (8/20).



Technical data	1	DTNVB 1/6/0,5 DTNVB 2/6/0,5 DTNVB 3/6/0,5 DTNVB 4/6/0,5	DTNVB 1/12/0,5 DTNVB 2/12/0,5 DTNVB 3/12/0,5 DTNVB 4/12/0,5	DTNVB 1/24/0,5 DTNVB 2/24/0,5 DTNVB 3/24/0,5 DTNVB 4/24/0,5	DTNVB 1/48/0,5 DTNVB 2/48/0,5 DTNVB 3/48/0,5 DTNVB 4/48/0,5
Number of protected pairs	1 2 3 4				
Nominal voltage	U_N	6 V	12 V	24 V	48 V
Max. continuous 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
C2 Max. discharge current (8/20)	I_{max}	10 kA	10 kA	10 kA	10 kA
C2 Nominal discharge current (8/20)	I_n	1 kA	1 kA	1 kA	1 kA
C2 Voltage protection level at I_n (8/20)	U_p	15 V	28 V	64 V	160 V
C3 Voltage protection level at 1kV/ μ s	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 μ H	4,7 μ H	4,7 μ H	4,7 μ H
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 mm ²	0,25 - 1,5 mm ²	0,25 - 1,5 mm ²	0,25 - 1,5 mm ²
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		53 101 53 201 53 301 53 401	53 102 53 202 53 302 53 402	53 104 53 204 53 304 53 404	53 106 53 206 53 306 53 406



DATA PROTECTION

HAKEL-TRADE