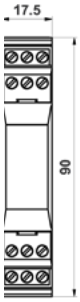
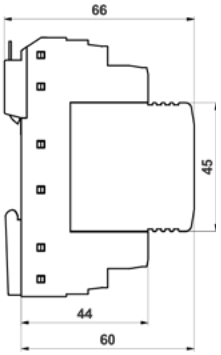
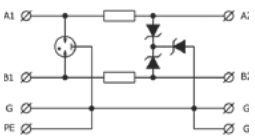
IT Systems

LPZ 1-2-3 / IP20 / CE

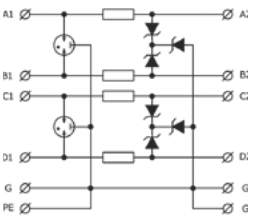




PZH HDT1/B



PZH HDT2/B



PZH HDT*/*B

PZH HDT*/*B is a complex range of surge protection devices designed for the protection of data, communication, measuring and control lines against surge effects. These devices are recommended for use at the boundaries of LPZ 1-2-3 lightning protection zones according to EN 62305. All types provide effective protection of connected equipment against common mode and differential mode surge effects according to EN 61643-21. The rated load current of individual protected lines I_L = 0,5 A.
1st stage is solved by using three-pole gas discharge tubes, 2nd stage by using transils. The number of protected pairs is optional (1-2). PZH HDT/*B is produced for nominal operating voltage within the range of 6V - 48 V.

TYPE / **NUMBER OF PROTECTED PAIRS**	**1** **2**	**PZH HDT1/6B** **PZH HDT2/6B**	**PZH HDT1/12B** **PZH HDT2/12B**	**PZH HDT1/24B** **PZH HDT2/24B**	**PZH HDT1/48B** **PZH HDT2/48B**
Nominal voltage	U_N	6 V	12 V	24 V	48 V
Max. continuous operating voltage	U_C	7,2 V	14,4 V	28,8 V	57,6 V
Rated load current	I_L	0,5 A			
C1 Nominal discharge current (8/20 µs)	I_n	1 kA			
C1 Voltage protection level at I_n line/PE	U_P	180 V	250 V	350 V	450 V
C1 Voltage protection level at I_n line/line	U_P	30 V	50 V	65 V	80 V
C2 Nominal discharge current (8/20 µs)	I_n	15 kA			
C2 Voltage protection level at I_n line/PE	U_P	350 V	450 V	550 V	600 V
C2 Voltage protection level at I_n line/line	U_P	40 V	55 V	70 V	120 V
C3 Voltage protection level at 1kV/µs line/PE	U_P	15 V	28 V	64 V	85 V
C3 Voltage protection level at 1kV/µs line/line	U_P	10 V	18 V	40 V	70 V
D1 Max. lightning impulse current (10/350 µs)	I_{imp}	5 kA			
D1 Lightning impulse current (10/350 µs) line/PE	I_{imp}	2,5 kA			
Response time	t_A	< 30 ns			
Series impedance per line		0,8 Ω			
Parasitic capacitance	C	1,5 nF			
Recommended cable cross-section		0,25 - 1,5 mm²			
Tested acc. to EN 61643-21		C1, C2, C3, D1			
Article number		**77 56 002 (1)** **77 56 006 (2)**	**77 56 003 (1)** **77 56 007 (2)**	**77 56 004 (1)** **77 56 008 (2)**	**77 56 005 (1)** **77 56 009 (2)**