

LZ-NET 6



- **Category IEC / EN:** D1/C1/C2/C3
- **Protection:** All 4 pairs protected
- **Nominal operating voltage:** U_n : 48V_{DC}
- **Max. operating voltage:** U_c : 50V_{DC}
- **Frequency range:** 250MHz, up to Cat 6, PoE compatible
- **Surge Discharge Ratings:** I_n : 10kA, I_{imp} : 1kA
- **Enclosure:** UTB in-line patch, DIN rail mount
- **Housing:** Compact design
- **Termination:** RJ45, shielded
- **Complies with:** IEC/EN 61643-21



The LZ-NET 6 series is intended to protect Local Area Networks (LAN) from overvoltage surges and electrostatic discharges created by switching transients in buildings. LAN systems are particularly prone to such disturbances because of the often long cable lengths involved which behave like antennas to such atmospheric disturbances.

It provides protection to all 4 lines in the UTP, STP and is **Cat 6 capable**.

Ground potential equalization between signal and protective (network or PC chassis) ground is provided.

Product is designed to fulfil all versions of PoE applications compatible with standards IEEE 802.3af and IEEE 802.3at.

Technical data

Type		LZ-NET 6
Electrical characteristics		
Number of protected pairs		4
Nominal operating voltage (DC)	U_n	48V
Max. continuous operating voltage (DC)	U_c	50V
Rated load current at 25°C	I_L	1A
Nominal discharge current (8/20µs)	I_n (line-line)	150A
	(Lines-PG)	10kA
Impulse current (10/350µs)	I_{imp}	1kA
Voltage protection level at I_n	U_p (line-line)	150V
	(line-PG)	550V
Response time of overvoltage protection	t_A	< 1ns
Limit frequency	f_G	250MHz (Class E)
Mechanical characteristics		
Connection		Input/Output: RJ45 sockets
Temperature range		-40°C ... +80°C
Degree of protection IEC/EN 60529		IP 20
Housing material		Metal
Mounting IEC/EN 60715		35mm DIN rail

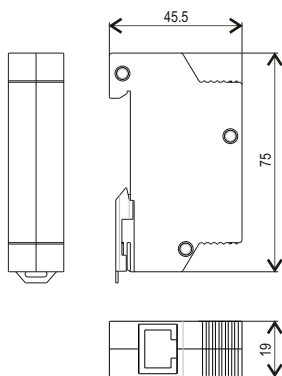
Ordering information

Ordering code LZ-NET 6	706 301
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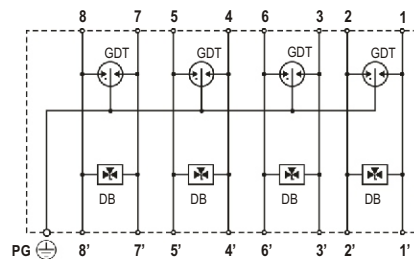
Dimensions, Internal configuration, Weight and Packaging

LZ-NET 6

Dimensions



Internal configuration



Legend:

- GDT *gas discharge tube*
- DB *diode block*
- PG *protective grounding*

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Dimensions DIN 43880	19mm
Weight per unit	120g
Packaging dimensions (single unit)	78 x 23 x 108mm
Min. packaging quantity	12 pcs.

