

DEHN LIGHTNING & SURGE PROTECTION FOR DC SIGNALS AND DATA LINES

BLITZDUCTOR, DEHNrapid, DEHNpatch, DEHNgate

929161

DEHNpatch CL8 EA 4PPOE Compact combined arrester for the protection of data interfaces against lightning currents and surges in Ethernet applications up to 10 GBit and Power over Ethernet (up to 4PPoE). Protection of 4 pairs via RJ45 sockets Class EA - to 500 MHz; e.g. industrial Ethernet, data distributors, digital camera systems, Power over Ethernet (IEEE 802.3 compliant to 4PPoE) and Ethernet-based interfaces in general. Protection of all pairs through powerful gas discharge tubes and protective diodes between signal cores and pairs. Fully shielded adapter design with RJ45 sockets for DIN rail mounting. With additional screw connection on the enclosure for an optional earth connection.



- Protection devices for analogue signals
- Data network in line protection
- DC power protection
- Ethernet and PoE protection
- Ex-rated Versions

PRODUCT DESCRIPTION

The Blitzductor connect compact series, such as the BCO CL2 B-180, are ultra-slim surge arresters (just 6 mm wide) designed to protect up to two single-line circuits (e.g., shielded data or equipotential bonding lines). They feature tool-free push-in connections for fast installation, built-in LifeCheck and visual status LEDs, and optional remote signalling ensuring maintenance teams always know whether the unit is operational. These Type 1 SPDs meet EN/IEC 61643-21 and 22 standards, support impulse categories C2, C3, B2, and D1, and handle continuous operating voltages up to 180 V DC/127 V AC. In the event of surges, they can divert up to 5 kA (8/20 μ s) per line, 10 kA total, and lightning impulses up to 1.5 kA per line (3 kA total).

These surge arresters safeguard sensitive control, I/O, or communication lines in industrial and automation environments, particularly where space is limited and system uptime is critical. Their vibration- and shock-resistant polyamide housing and approvals for intrinsically safe (ATEX/IECEx) zones make them ideal for harsh or hazardous sites. Other versions in the series protect balanced or high-frequency pairs, DC supplies, or intrinsically safe circuits—ensuring tailored protection across measurement, fieldbuses, PoE links, or unbalanced analog cabling. Remote-monitor integration means fault status can be centrally tracked, minimizing downtime and maintenance costs.

TECHNICAL DATA

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Earthing arrangement	35mm DIN rails
Nominal voltage	3.3V

DIMENSIONS

Length	51 mm
Width	19 mm
Height	75 mm

ADDITIONAL DATA

Tariff code	85363010
Weight	0.18 kg
Max Continuous Operating Voltage (DC)	3.3 V
SPD Class	Type 1
Test standard	IEC 61643-21 / EN 61643-21
IP class	IP20

