

DIN rail plug-in Surge Protector for dataline - ATEX

DLA-EX



DLA-EX surge protectors are designed to protect against surge voltages due to lightning, terminal equipments connected to intrinsic safe circuits.

In compliance with ATEX directives, they are classified as EEx ia and can operate in explosive areas by using the principle of energy limitation.

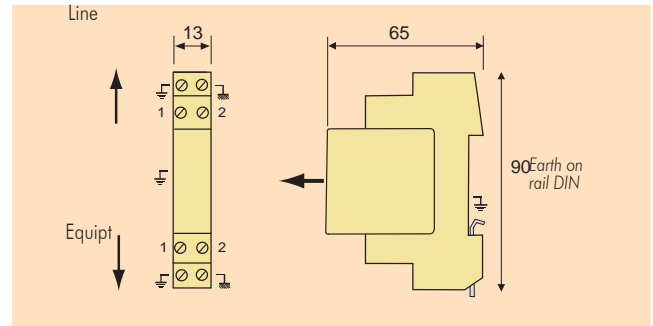
These surge protectors fit on DIN rail and are available for 12, 24 and 48 Vdc line voltages.

Electrical diagrams are built with gas tubes and fast clamping diodes in order to provide high discharge current capability and fast operation.

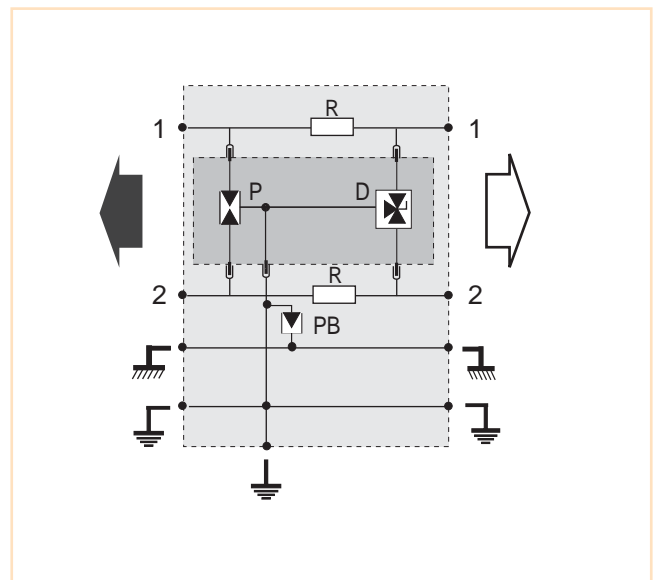
These products are 1-pair surge protectors with removable module for easy maintenance (spare module : P/N DLAM-EX...). Transmission and protection of the shield wire by gas tube. Direct earthing through DIN rail. Line continuity in case of plug-in module removal.

- **Pluggable surge protection for «DIN» mounting**
- **for datalines up to 48 Vdc**
- **Shield wire protection**
- **Comply with ATEX directive**
- **IEC 61643-21 compliance**

Dimensions (in mm)



Electrical diagrams



Characteristics

CITEL part number	DLA-EX-48D3	DLA-EX-24D3	DLA-EX-12D3
Typical use	48 V line	4-20 mA	RS232 RS485
Configuration	1 pair+shield	1 pair+shield	1 pair+shield
Nominal line voltage (Un)	48 V	24 V	12 V
Max. line voltage (Uc)	53 V	28 V	15 V
Max. line current	300 mA	300 mA	300 mA
Protection level (Up) 8/20µs impulse - 5 kA	70 V	40 V	30 V
Nominal discharge current (In) 8/20µs impulse - 10 times	5 kA	5 kA	5 kA
Max. discharge current (Imax) 8/20µs impulse - 1 time	20 kA	20 kA	20 kA
Impulse current (Iimp) 10/350µs impulse - 2 times	5 kA	5 kA	5 kA
Type of diagram	D	D	D
End of life	Short-circuit	Short-circuit	Short-circuit
Spare module	DLAM-EX-48D3	DLAM-EX-24D3	DLAM-EX-12D3
Mechanical specifications	Symmetrical DIN rail mounting Connection by screw - min/max. cross section 0.4/1.5 mm ² Housing material : Thermoplastic UL94-V0 Earth connection via DIN rail and screw terminal		