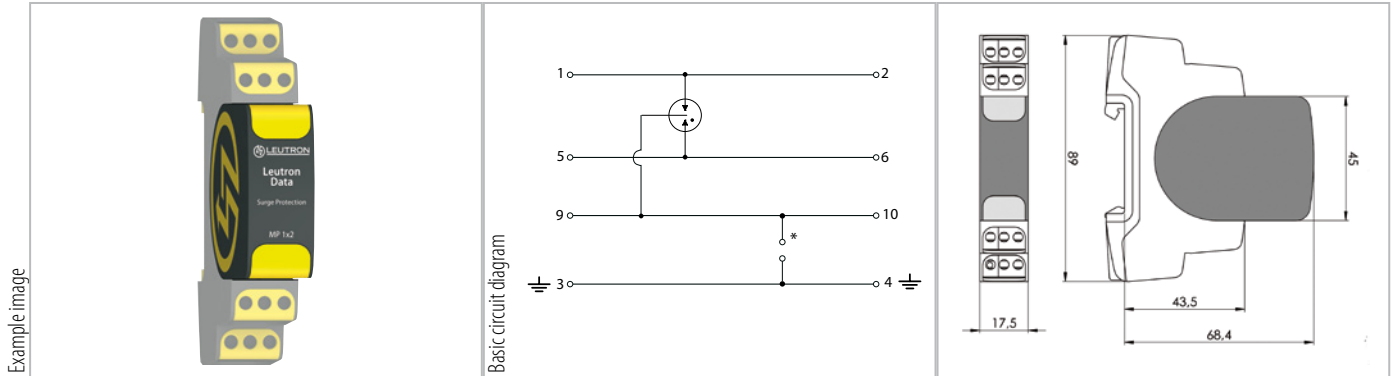


Datasheet

Surge protection for measuring systems and automatic control devices

Pluggable SPD with high discharge capability for MCR applications



Fully pluggable two-parts lightning current discharge arrester for signal lines. The protective module can be removed for test or maintenance purposes without changing the line impedance and therefore influencing the signal level. The base part can remain in the installation without manipulating or removing any wire.

- Protective circuit for 2 signal lines without reference to ground potential
- Protective plug can be removed without changing the line impedance or influencing the useful signal
- Test standard: IEC 61643-21 / EN 61643-21
- Applicable at the boundaries LPZ 0B - 1 and higher
- Mounting on 35 mm DIN rail
- Enclosure material: thermoplastic
- Space required for installation: 17.5 mm

Technical Data		MP 1x2 GDT ST
IEC category/EN type		D1 / C2 / C1 / C3
Nominal voltage	UN	180 V
Max. continuous operating voltage (DC/AC)	Uc	180/120 V
Nominal current	IN	2 A
D1 lightning impulse current (10/350) per wire	Iimp	2,5 kA
C2 nominal discharge current (8/20 µs) total (In)	In	20 kA
C2 nominal discharge current (8/20 µs) per line	In	10 kA
Protection level line-line at Iimp D1	Up	≤ 550 V
Protection level line-earth at Iimp D1	Up	≤ 550 V
Protection level line-line at 1 kV/µs C3	Up	≤ 500 V
Protection level line-Pg at 1 kV/µs C3	Up	≤ 500 V
Series resistance per line		0 Ω
Max. operating frequency (3 dB)	fG	typ. 100 MHz
Conductor cross section (solid/stranded/AWG)		0.2-4.0/0.2-2.5 mm ² / 24-12
Operating temperature range	TU	-40 - +80 °C
Inflammability class according to UL 94		V0
Degree of protection (IEC EN 60529)		IP 20
Enclosure material / colour		PA6 / black-yellow
Dimension (DIN 43880)		1 TE
Mounting on		35 mm DIN rail (EN 60715)

Order Data

Product	MP 1x2 GDT ST
Article-No.	97 00 10

Surge protection for measuring systems and automatic control devices

Accessories			
Product	MP Base 1x2 (*1)	MP Base 1x2 GDT (*2)	MP Base 1x2 GND (*3)
Item no.	97 00 97	97 00 98	97 00 94

*1: Shield connectors are not linked with DIN rail or earth connector: galvanic insulation PE

*2: Shield connectors 9/10 (GND) are linked via GDT DIN rail and earth connector. Therefore a galvanic insulation between the signal shield and the earth connection (PE) can be reached.

*3: Shield connectors 9/10 are fixed with DIN rail. No galvanic insulation to PE.

