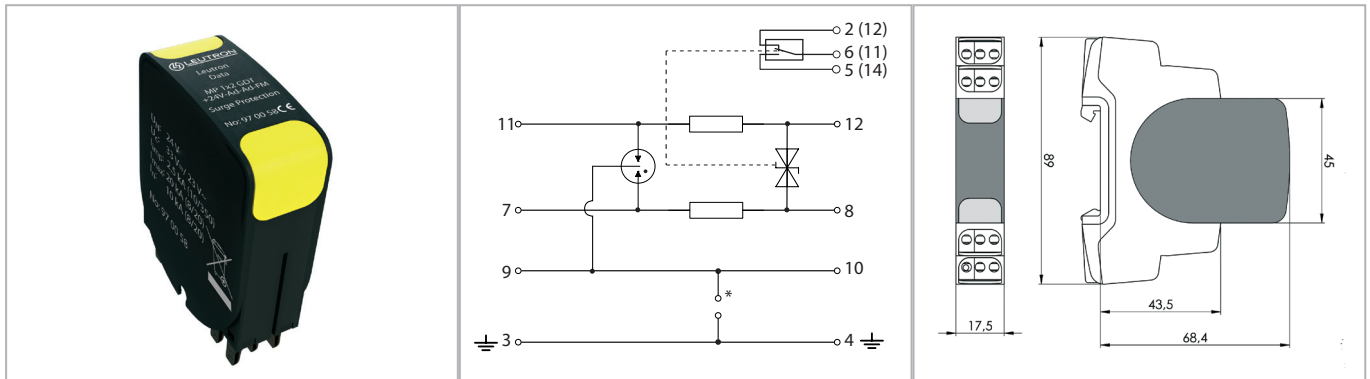


# Datasheet

## Surge protection for measuring systems and automatic control devices

### Pluggable SPD with high discharge capability and low protection level for MCR applications



**Fully pluggable two-parts arrester with remote signaling contact 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 plug can be removed without changing the line impedance or influencing the useful signal
- Protection of one double or two single lines
- Test standard: IEC 61643-21 / EN 61643-21
- Vibration test standard: DIN EN 60068-2-6, IEC 60068-2-6
- Shock test standard: DIN EN 60068-2-27, IEC 60068-2-27
- Applicable at the boundaries LPZ 0A - 1 and higher
- Mounting on 35 mm DIN rail (EN 60715)
- Enclosure material: thermoplastic
- Space required for installation: 17.5 mm
- Remote signalling contact: Remote changeover contact

Technical Data		MP 1x2 GDT+24V-Ad-Ad-FM
IEC category		D1 / C2 / C1 / C3
Nominal voltage DC	UN	24V=
Max. continuous operating voltage (DC/AC)	Uc	33/23 V
Nominal current	IL	0,5 A
D1 lightning impulse current (10/350 µs) per line	Iimp	2,5 kA
C2 nominal discharge current (8/20 µs) total	I <sub>max</sub>	20 kA
C2 nominal discharge current (8/20 µs) per line	I <sub>n</sub>	10 kA
Protection level line-line at Iimp D1	U <sub>p</sub>	≤ 52 V
Protection level line-earth at Iimp D1	U <sub>p</sub>	≤ 550 V
Protection level line-line at 1 kV/µs C3	U <sub>p</sub>	≤ 45 V
Protection level line-Pg at 1 kV/µs C3	U <sub>p</sub>	≤ 500 V
Series resistance per line		2,2 Ω
Max. operating frequency (-3 dB)	f <sub>G</sub>	typ. 6,0 MHz
Conductor cross section (solid/stranded/AWG)		0.2-4.0/0.2-2.5 mm <sup>2</sup> / 24-12
Operating temperature range	TU	-40 - +70°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)		17,5 mm
Mounting on		35 mm DIN rail (EN 60715)
Max. operating voltage remote contact FM		110 V DC / 125 V AC
Max. switching power FM		30 W (DC) // 62,5 VA (AC)
Switching capacity FM		1 A/30 VDC // 0,5 A/125 VAC
Order Data		
Product	MP 1x2 GDT+24V-Ad-Ad-FM	
Article-No.	97 00 58	

15.04.2020

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