

Features

- 2-wire system
- 5V signal system
- Continuous Operation (with Auto-Reset)
- 6 mm, hot plugging
- Signal Test Points for easy circuit monitoring

Discription

This SPD limits induced transients of different origin (lightning stroke, switching impulse, etc.). This is achieved by diverting the transient current to ground and limiting the signal line voltage to a safe level for the duration of the surge.

It can be applied to 2 wire RTD, TC, RS-485, MODBUS, PROFIBUS-DP, CAN and other products.

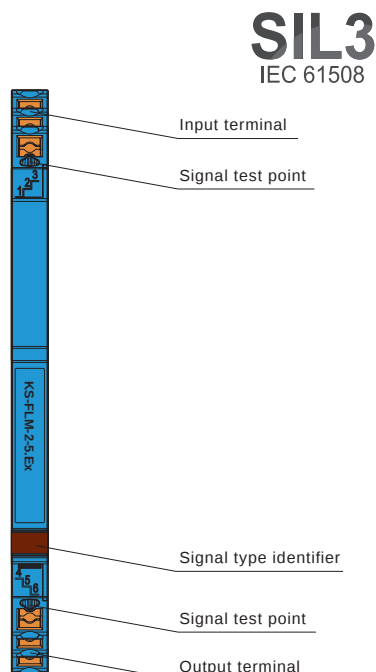


Parameter

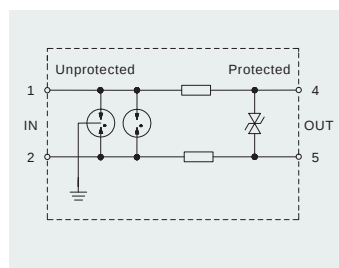
Nominal voltage U_n	5 V
Max. continuous operating voltage $U_c(DC)$	6 V
Max. continuous operating voltage $U_c(AC)$	4 V
Nominal current I_L	600 mA (60°C)
Total lightning impulse current $I_{imp}(10/350 \mu s), D1$	5 kA
Lightning impulse current $I_{imp}(10/350 \mu s), D1$	2.5 kA
Max. discharge current $I_{max}(8/20 \mu s), C2$	20 kA
Nominal discharge current $I_n(8/20 \mu s), C2$	10 kA
Voltage protection level $U_p(8/20 \mu s), C2$	$L-L \leq 45 V / L-PE \leq 500 V$
Voltage protection level $U_p(1 kV/\mu s), C3$	$L-L \leq 15 V / L-PE \leq 500 V$
Bandwidth $f_G(100 \Omega \text{ resistance})$	300 kHz
Series impedance	$< 1 \Omega$
Response time T_a	$< 1 ns$
Ex marking	Ex ia [ia Ma] I Mb Ex ia [ia Ga] IIC T6/T5/T4 Gb
General parameters	
Operating temperature	-40 °C ~ +85 °C
Installation	35 mm DIN rail
Grounding mode	Grounding rail
Connecting wire size	0.2 mm ² ~ 2.5 mm ²
Material	PBT
Flame retardant grade(UL94)	V0
Protection degree	IP20
Standards	IEC 61643-21/ GB/T 18802.21

Intrinsically Safe SPD with Failure Indication

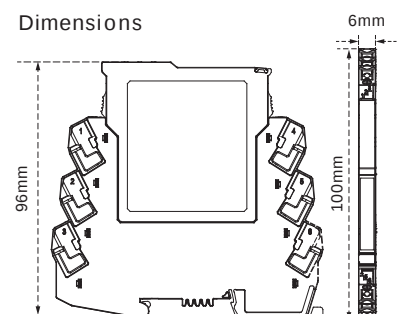
Graphics



Schematic



Dimensions



Application

