

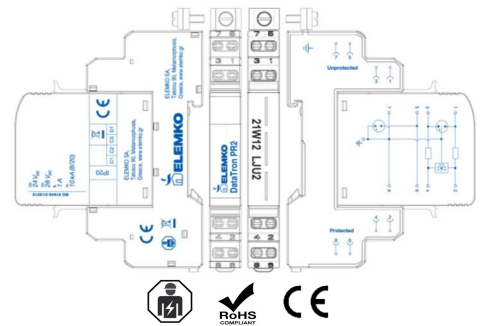
## PRODUCT DATA SHEET

### SURGE PROTECTIVE DEVICES (SPDs)

**Code: 68 45 121**
**Ed.03/2021**
**Brand name: DataTron PR 2-48**
**Application: Low voltage digital & analogue signals**

#### Description

Surge protective device, suitable for the protection of electrical and electronic equipment, operating at low voltage digital and analogue signals. It is providing protection, to 1 cable pair and shield, against external transients and surges caused by lightning, induction and switching overvoltages. Especially designed to be installed in switchboards and control panels with limited space and where a numerous of incoming and outgoing cables are connected, such as interfaces RS 485 and RS 422. Quick and easy installation by clipping on DIN rail. It is consisted of a plug-in protection module and a base. The signal pass through the base in order to operate uninterruptible even with the module removed. The plug-in protection module can be replaced in no time with no need to cut-off the signal. The SPD is providing the options to connect the cable's shield to the ground directly or through spark gap. The spark gap connects the shield to the ground only in case of overvoltage, when it operates, while in normal conditions it keeps the shield ungrounded in order to reduce the noise from scattered currents.



#### Protection type EN / IEC 61643 – 21

- C1, C2, C3, D1

#### Technical characteristics

Number of Poles	4 + GND
Number of protected pairs	1 + shield
Connection between terminals	L <sub>1</sub> – L <sub>2</sub> , L <sub>1</sub> – GND, L <sub>2</sub> – GND
Maximum operating voltage, U <sub>c</sub>	52 V
Maximum operating current, I <sub>L</sub>	1 A
Maximum signal frequency, F	30 MHz
Series line resistance (input – output), R	2 Ω
Line capacitance (input – output), C	50 pF
I <sub>imp</sub> , D1 test, (10/350μs), 2P / 1P	2,5 kA / 1,25 kA
I <sub>n</sub> , C2 test, (8/20μs), 2P / 1P	20 kA / 10 kA
U <sub>p</sub> , (at 5 kA) L–L & L–GND	<140 V
U <sub>p</sub> , C3 (at 1 kV) L–L & L–GND	<69 V
U <sub>p</sub> , C3 (at 1 kV) shield – GND	<276 V
Response time, t <sub>A</sub>	1 ns
Main circuit	GDT + TVS
Connection to network	In line
Protection level of housing	IP20
Dimensions WxHxD	12x95x84,5 mm
Operating temperature, θ	-40°C ÷ +80°C
Relative humidity	5% ÷ 95%
Maximum conductor for terminal	0,75 – 4 mm <sup>2</sup>
Conductor terminals tightening torque	1 Nm
Rail mounting	DIN-3 (TS-35/EN50022)
Housing material	Thermoplastic V-0
Certification	CE
Conformity with	LVD 2014/35/EU
Installation only by qualified electrician	IEC 60417 – 6182

#### ELEMKO management systems

- ISO 9001
- ISO 14001
- ISO 45001

#### Country of Origin

Greece

**Unit: piece / Package: 1 piece**

We reserve the right to introduce changes in the component due to technical evolution.