

## PRODUCT DATA SHEET

### SURGE PROTECTIVE DEVICES (SPDs)

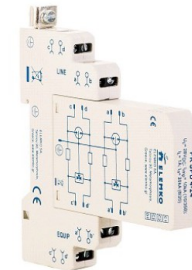
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**Brand Name: DataTron PR 4-12**
**Application: Low voltage digital & analogue signals**

#### 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 up to 2 cable pairs, 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.



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

- C1, C2, C3, D1

#### Technical characteristics

Number of Poles	4 + GND
Number of protected pairs	2
Connection between terminals	L <sub>1</sub> – L <sub>2</sub> , L <sub>1</sub> – GND, L <sub>2</sub> – GND L <sub>3</sub> – L <sub>4</sub> , L <sub>3</sub> – GND, L <sub>4</sub> – GND
Maximum operating voltage, U <sub>c</sub>	15 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>imp</sub> , D1 test, (10/350μs), 4P	5 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	<42 V
U <sub>p</sub> , C3 (at 1 kV) L–L & L–GND	<21 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.