

**V-PROTEC® Signal – Lightning and surge protection for instrumentation and control (I&C)**

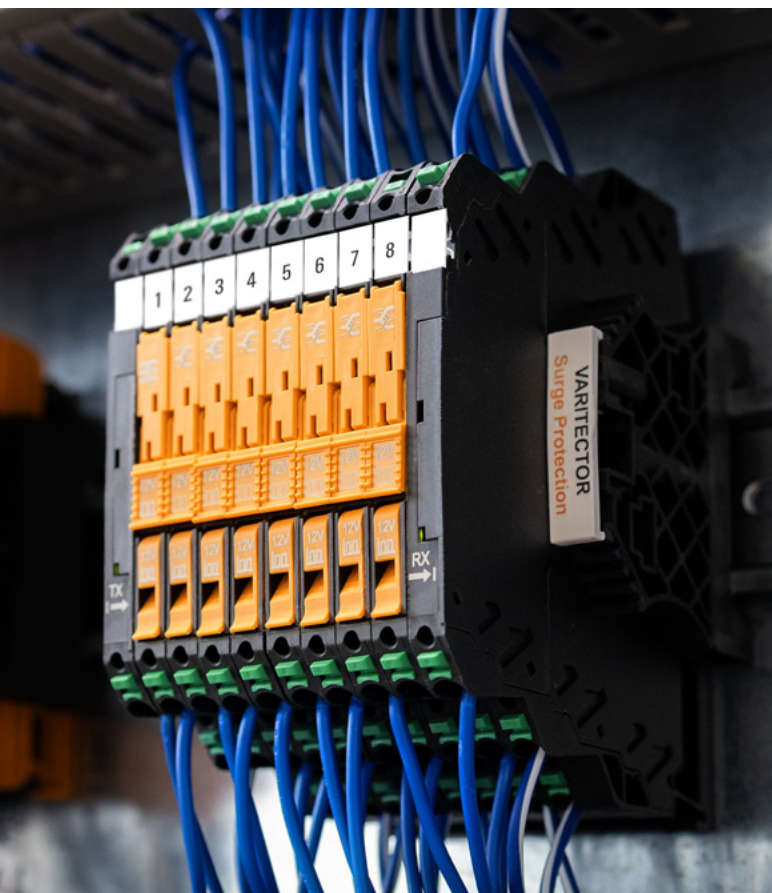
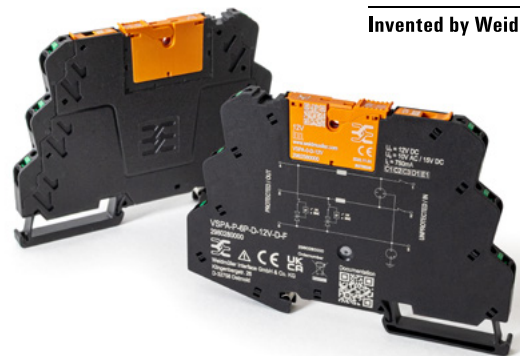
## **VSPA series – Surge protection for I&C applications**

**Innovative signal protection with SNAP IN connection technology**

The VSPA series protects signal and data lines in measurement, control, and regulation technology against surge impulses and safeguards sensors, actuators, and controllers against failures. The innovative SNAP IN connection technology speeds up installation, while the integrated disconnection lever enables fast and safe signal and insulation measurements.

Thanks to the “Light beam” function, up to 40 protection modules can be monitored centrally. The slim, vibration-resistant signal protection modules save space, are tested in accordance with the new IEC/EN 61643-21:2025 standard, and offer maximum planning reliability.

**SNAP IN**   
Invented by Weidmüller.



### **YOUR SPECIAL ADVANTAGES:**

- Protects signal and data lines from surges
- Speeds up wiring with SNAP IN
- Centrally monitors up to 40 arresters with Light Beam
- Compact width of 6.2 mm
- Modules for analogue and digital signals
- Universal modules for 24 V
- $I_{total}$  20 kA (8/20µs)
- Made in Germany
- Marking channel for clear labeling



**PREVENT DOWNTIME | ACCELERATE WIRING |  
STATUS MONITORING | SIMPLIFY INVENTORY MANAGEMENT**

## APPLICATIONS:

VSPA ensures maximum system availability even under demanding conditions. Whether in automated production facilities, critical infrastructure, potentially explosive areas, or modern building systems:

The signal protection series offers quick SNAP IN installation, centralized status monitoring, and convenient testing and maintenance functions. Robust designs, floating-ground variants, and standards-compliant solutions increase operational reliability, reduce downtime, and simplify planning, installation, and service.

## TECHNICAL DATA

| Product description  | Pluggability  | Number of ports | Signal type   | Nominal voltage | Disconnection lever | High frequency | Floating ground | Ex application | Order No.  |
|----------------------|---------------|-----------------|---------------|-----------------|---------------------|----------------|-----------------|----------------|------------|
| VSPA-P-4P-A-24V      | pluggable     | 4               | Analogue      | 24 V            |                     |                |                 |                | 2980120000 |
| VSPA-P-4P-A-24V-F    | pluggable     | 4               | Analogue      | 24 V            |                     |                | ●               |                | 2980130000 |
| VSPA-P-6P-A-24V      | pluggable     | 6               | Analogue      | 24 V            |                     |                |                 |                | 2980140000 |
| VSPA-P-6P-A-24V-F    | pluggable     | 6               | Analogue      | 24 V            |                     |                | ●               |                | 2980150000 |
| VSPA-P-6P-A-24V-H    | pluggable     | 6               | Analogue      | 24 V            |                     | ●              |                 |                | 2980160000 |
| VSPA-P-6P-A-24V-D    | pluggable     | 6               | Analogue      | 24 V            | ●                   |                |                 |                | 2980170000 |
| VSPA-P-6P-A-24V-D-F  | pluggable     | 6               | Analogue      | 24 V            | ●                   |                | ●               |                | 2980180000 |
| VSPA-P-4P-D-24V      | pluggable     | 4               | Digital       | 24 V            |                     |                |                 |                | 2980300000 |
| VSPA-P-4P-D-24V-F    | pluggable     | 4               | Digital       | 24 V            |                     |                | ●               |                | 2980310000 |
| VSPA-P-6P-D-24V      | pluggable     | 6               | Digital       | 24 V            |                     |                |                 |                | 2980320000 |
| VSPA-P-6P-D-24V-F    | pluggable     | 6               | Digital       | 24 V            |                     |                | ●               |                | 2980330000 |
| VSPA-P-6P-D-24V-D    | pluggable     | 6               | Digital       | 24 V            | ●                   |                |                 |                | 2980340000 |
| VSPA-P-6P-D-24V-D-F  | pluggable     | 6               | Digital       | 24 V            | ●                   |                | ●               |                | 2980350000 |
| VSPA-P-6P-U-24V      | pluggable     | 6               | Universal     | 24 V            |                     |                |                 |                | 2980730000 |
| VSPA-P-6P-U-24V-D    | pluggable     | 6               | Universal     | 24 V            | ●                   |                |                 |                | 2980740000 |
| VSPA-P-6P-U-24V-D-F  | pluggable     | 6               | Universal     | 24 V            | ●                   |                | ●               |                | 2980750000 |
| VSPA-P-4P-TVS-24V    | pluggable     | 4               | Diode module  | 24 V            |                     |                |                 |                | 2980610000 |
| VSPA-P-6P-TVS-24V    | pluggable     | 6               | Diode module  | 24 V            |                     |                |                 |                | 2980620000 |
| VSPA-C-4P-STATUS-24V | not pluggable | 4               | Status module | 24 V            |                     |                |                 |                | 2980690000 |

## RELEVANT INDUSTRIES



Machinery



Wind Energy



Photovoltaics



Traditional power



Power  
Transmission  
and distribution



Water and  
Wastewater  
treatment



Oil and Gas



Hydrogen



Railway



Shipbuilding



Building  
Infrastructure



Data Center



Cabinet building



Energy Storage



Device  
Manufacturer



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