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

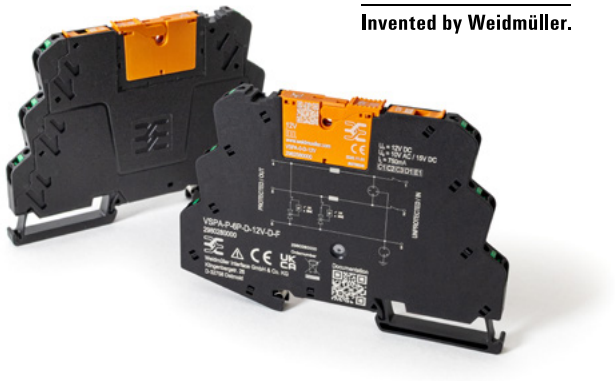
VSPA series – Surge protection for I&C applications

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



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

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 frequenzy	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

Visit our website for more information
www.weidmueller.com/vspa

Visit our online catalogue
for more information

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