

Power Distribution System SVS16-PB-08

The flexible PROFIBUS package for DC 24 V systems



SVS16-PB

Technical information

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The new power distribution and remote output system type SVS16-PB-08 provides selective overcurrent protection, power distribution in load circuits as well as switching, protection and monitoring of digital outputs up to 10 A. Integral consistent communication of operating and error conditions as well as switching and resetting of individual circuits on the DC 24 V level via PROFIBUS-DP make the SVS16 an intelligent sub-system on the control level.

The track-mountable SVS16-PB-08 accommodates eight electronic circuit

protectors type ESX10-S125 (with reset input) or ESX10-S115 (with control input) up to 10 A. They ensure selective overcurrent protection of sensors/actuators, peripheral sub-assemblies etc. and their supply lines.

Alternatively the slots of the SVS16-PB allow the use of the solid state power controller type E-1048-S7xx. Its features and benefits include monitoring and control of hydraulic or pneumatic solenoids, signal lamps etc. in the range from 0.5 A through 5 A with regard to short circuit, overload and wire break. The use of PROFIBUS-DP makes

all advantages of this well-proven system available for the protection of DC 24 V circuits. The SVS16-PB has a fully-fledged PROFIBUS-DP interface supporting all specified baud rates up to max. 12 MBaud.

The SVS16-PB reduces wiring times and increases diagnostic capabilities in process control, chemical, pharmaceutical and foodstuffs industry, in steel production and car manufacturing.

Technical data

Power supply DC 24 V, max. 40 A (screwless or screw terminals)	+24 V (2-way), 0 V (2-way) and PE (1-way), max. 10mm ² each
Number of ways	SVS16-PB-08: 8 ways SVS16-PB-16: 16 ways
Suitable for	- electronic circuit protectors type ESX10-S115/-S125, max. 10 A - solid state remote power controllers type E-1048-S7xx, max. 5 A
Load outputs max. 10 A per way (screwless or screw terminals)	1 x load L+ and 0 V return conductor (1-way each) 2.5 mm ² each
I/O communication interface	PROFIBUS-DP (EN 50170 / IEC 61158) 12 MBaud, with address selector switch connection via 9-pin SUB-D plug integration into Profibus system via included GSD file
LED indication	module supply, bus condition, peripheral faults



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Electronic Circuit Protector ESX10-S115



Solid State Remote Power Controller E-1048-S7xx

Features and benefits

- Integral DC24 V complete system for overcurrent protection, power distribution, remote output – including PROFIBUS-DP interface
- Integral diagnostics for load circuits (overcurrent, wire break etc.)
- For use with electronic circuit protectors ESX10-S115/-S125 up to 10 A and solid state remote power controllers E-1048-S7xx up to 5 A
- Upgradable for other field bus systems (DeviceNet, CANopen etc.) and Ethernet variants (Profinet, Modbus-TCP etc.)
- Expandable to suit customer-specific power distribution concepts



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