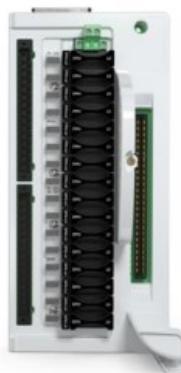


VBS01-SFP

ABB Ability™ Symphony® Plus Hardware Selector



The VBS01-SFP the IO module mounting base is designed for 16-CH standard sized, Singular (Non-Redundnat) analog input, digital input and digital ouput modules.

The VBS01-SFP base is specifically designed to eliminate the need for 3rd party external marshaling hardware.

Each channel of the VBS01-SFP base is individually fused, has a fuse status LED, field power is configurable (system vs. external power) and can be quickly disconnected from field wiring using FPS (Field Power Selector) plugs.

Features and benefits

- 16 configurable IO channels where the following is provided for each CH:
- Field power selection via (EPD-_V, FPH-_V, FPN-_V) FPS plugs. Where LV = < 60V and HV = > 60V.
- Individual fuse and fuse status LED per CH.
- Individual CH field power keying (EPD/FPH/FPN & LV/HV) to prevent incorrect field power from being applied.
- Quick disconnect of field wiring by removing the FPS plug.
- All SD I/O modules & bases of all types (Singular or Redundant) AND (Compact or Full-size), are 100% fully compatible with each other. Thus, Singular & Redundant, Compact or Full-size I/O modules can be mounted within a single, common HN800 I/O bus.

General info

Article number	8VZZ002700H1
Life cycle status	ACTIVE
Line redundancy	Redundant HN800 I/O Bus
Channels	16
Hot swap	No
Supported I/O modules	AI01, AI02, AI05, AI06, AO01, AO02, AO05, AD11, DI01, DI02, DI03, DI04, DO01, DO02, DO05
Singular or redundant	Singular
Form factor	Full-size (218 mm Tall x 103 mm Wide)
Mounting	Vertical Column
HN800 bus length	305 mm
MTBF (per MIL-HDBK-217-FN2)	1,866,544 Hrs
MTTR (Hours)	8 Hrs

Detailed data

Overvoltage category	Category 1 for power. Tested according to IEC/EN 61010-1
Process signal connections	16-CH AIO or DIO
Field power connection	Compact
Field power fusing	250mA per CH
Signal connection	2x pluggable 16-pt Terminal Blocks
Max current	250mA
Acceptable field signal wire sizes	#22 -14 AWG stranded or solid, #12 AWG stranded
Galvanic isolation test voltage	1500 V for up to 1 minute

Environment and certification

Temperature, Operating	-40 to +70 °C Tested according to IEC/EN 60068-2-1, IEC/EN 60068-2-2
Temperature, Storage	-40 to +85 °C Tested according to MIL-STD-810G
Relative humidity	20% to 95% @ 40°C non-condensing. Tested according to IEC/EN 60068-2-78, IEC/EN 61298-3
Vibration (operational sinusoidal)	5 to 60 Hz 0.137 mm (0.0054 in.), 60 to 150 Hz 1.0 G. Tested according to IEC/EN 60068-2-6
Vibration (transportation)	10 to 500 Hz. Tested according to MIL-STD-810G
Shock (storage)	15 G, 11 msec. Tested according to IEC/EN 60068-2-27
Drop	100 mm. Tested according to IEC/EN 60068-2-31
Protection class	IP20 according to EN 60529
Altitude (operational)	Sea level to 3,048 meters (10,000 ft.) Tested according to MIL-STD-810G
Altitude (storage)	Sea level to 12,192 meters (40,000 ft.) Tested according to MIL-STD-810G
Air quality	ISA S71.04 G1, ISA S71.04 G3 compliant versions VBS01-SFPA are also available
ESD immunity	Tested according to IEC/EN 61000-6-2, IEC/EN 61000-4-2, Severity level 3
Surge immunity	Tested according to IEC/EN 61000-6-2, IEC/EN 61000-4-5, Severity level 3
Electrical fast transient immunity	Tested according to IEC/EN 61000-6-2, IEC/EN 61000-4-4, Severity level 3
Radiated RFI immunity	Tested according to IEC/EN 61000-6-2, IEC/EN 61000-4-3, Severity level 3
Conducted Immunity	Tested according to IEC/EN 61000-6-2, IEC/EN 61000-4-6, Severity level 3
Magnetic field immunity	Tested according to IEC/EN 61000-6-2, IEC/EN 61000-4-8, Severity level 4
Radiated emission	Tested according to IEC/EN 61000-6-4, CISPR 11 + A1, CISPR 16-1-1, Group 1, Class A, ISM equipment
Conducted emission	Tested according to IEC/EN 61000-6-4, CISPR 11 + A1, CISPR 16-1-1, Group 1, Class A, ISM equipment
Voltage dips and interruption immunity	Tested according to IEC/EN 61000-6-2, IEC/EN 61000-4-11
CSA non-hazardous locations	Certified for use as process control equipment in an ordinary (non-hazardous) location
CSA hazardous, nonincendive locations	Class I, Division 2, Groups A, B, C, D
CE Mark	CE Mark EMC directive 2004/108/EC & Low Voltage Directive 2006/95/EC
RoHS compliance	RoHS Directive 2015/863
WEEE compliance	DIRECTIVE/2012/19/EU

Dimensions

Width	103 mm
Depth	110.1 mm
Height	218 mm
Weight	544 g

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