




## Product information Basic Switches - RSB20-0900VVM2SAABHH

Industrial Ethernet: Compact configurable managed switches: Basic switches (RSB): Basic Switches

<http://e-catalog.hirschmann.com/link/57078-24455-49854-84128-399555/en/RSB20-0900VVM2SAABHH/uistate>

Name	Basic Switches
	
	Ethernet/Fast Ethernet-Switch acc. to IEEE 802.3, compact, managed, Industrial switch for DIN Rail, Store-and-Forward-Switching, fanless design
<b>Delivery informations</b>	
Availability	available
<b>Product description</b>	
Description	Ethernet/Fast Ethernet-Switch acc. to IEEE 802.3, compact, managed, Industrial switch for DIN Rail, Store-and-Forward-Switching, fanless design
Port type and quantity	9 ports in total; 1. uplink: 2 x 100BASE-FX, SM-SC; 2. uplink: 100BASE-FX, MM-SC; 6 x standard 10/100 BASE TX, RJ45
Type	RSB20-0900VVM2SAABHH
Order No.	942 014-008
<b>More interfaces</b>	
Power supply/signaling contact	1 x plug-in terminal block, 6-pin
V.24 interface	1 x RJ11 socket
<b>Network size - length of cable</b>	
Multimode fiber (MM) 50/125 µm	0-5000 m, 8 dB link budget at 1300 nm, A=1 d/km, 3 dB reserve, B=800 MHz x km
Multimode fiber (MM) 62.5/125 µm	0-4000 m, 11 dB link budget at 1300 nm, A=1 dB/km, 3 dB reserve, B=500 MHz x km
Single mode fiber (SM) 9/125 µm	0-32.5 km, 16 dB link budget at 1300 nm, A=0.4 dB/km, 3 dB reserve, D=3.5 ps/(nm x km)
<b>Network size - cascading</b>	
Line - / star topology	any
Ring structure (HIPER-Ring) quantity switches	50 (reconfiguration time < 0.3 sec.)
<b>Power requirements</b>	
Operating voltage	24 V DC (18-32 V)
Current consumption at 24 V DC	365 mA
Power output in Btu (IT) h	30.3
<b>Software</b>	
Management	Serial interface, web-interface, SNMP V1/V2, HiVision file transfer SW HTTP/TFTP
Diagnostics	LEDs, Log-File, signal contact, RMON (statistic, history, alarms, events), port mirroring, topology discovery 802.1AB
Configuration	Comand Line Interface (CLI), BootP, DHCP, DHCP Option 82, HiDiscovery, auto-configurationadapter (ACA11)
Security	SNMP V3 (no encryption)
Redundancy functions	HIPER-Ring (client and server), MRP (client and server), RSTP - IEEE802.1D-2004
Filter	QoS 4 classes, port prioritisation (IEEE 802.1D/p), multicast IGMP (Snooping and Querier, Fast Aging)
Industrial Profiles	EtherNet/IP and PROFINET compatibel
Time synchronisation	SNTP Client and Server, IEEE 1588 client
Flow control	n/a
Presettings	Standard
<b>Ambient conditions</b>	
Operating temperature	0 °C ... 60 °C
Storage/transport temperature	-40 °C ... 70 °C
Relative humidity (non-condensing)	10 % ... 95 %
MTBF	n/a
Protective paint on PCB	No
<b>Mechanical construction</b>	
Dimensions (W x H x D)	71 mm x 131 mm x 111 mm
Mounting	DIN Rail
Weight	400 g
Protection class	IP20



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### Mechanical stability

IEC 60068-2-27 shock 15 g, 11 ms duration, 18 shocks

IEC 60068-2-6 vibration 1 mm, 2 Hz-13.2 Hz, 90 min.; 0.7 g, 13.2 Hz-100 Hz, 90 min.; 3.5 mm, 3 Hz-9 Hz, 10 cycles, 1 octave/min.; 1g, 9 Hz-150 Hz, 10 cycles, 1 octave/min.

### EMC interference immunity

EN 61000-4-2 electrostatic discharge (ESD) 6 kV contact discharge, 8 kV air discharge

EN 61000-4-3 electromagnetic field 10 V/m (80-1000 MHz)

EN 61000-4-4 fast transients (burst) 2 kV power line, 1 kV data line

EN 61000-4-5 surge voltage power line: 2 kV (line/earth), 1 kV (line/line), 1 kV data line

EN 61000-4-6 conducted immunity 3 V (10 kHz-150 kHz), 10 V (150 kHz-80 MHz)

EN 61000-4-16 mains frequency voltage n/a

### EMC emitted immunity

FCC CFR47 Part 15 FCC 47 CFR Part 15 Class A

EN 55022 EN 55022 Class A

### Approvals

Safety of industrial control equipment cUL 508

Hazardous locations ISA 12.12.01 Class 1 Div. 2 (pending)

Shipbuilding n/a

Railway norm n/a

Substation n/a

Transportation n/a

### Scope of delivery and accessories

Scope of delivery Device, terminal block, operating manual

For more information please contact:

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