



Hirschmann Automation and Control GmbH



RS20-0900VVM2TDAU

Industrial Networking:Industrial Ethernet:OpenRail System:Compact:Unmanaged Switches

Product description

Description	ETHERNET/Fast ETHERNET switch according to IEEE 802.3, compact unmanaged industrial switch for DIN rail, store and forward switching, fanless design
Port type and quantity	Fast Ethernet ports in total: 9; amount standard 10/100BASE TX, RJ45: 6; Gigabit Ethernet ports: 0; 1. Uplink port: 100BASE-FX, SM-SC; 2. Uplink port: 100BASE-FX, SM-SC; 3. Uplink port: 100BASE-FX, MM-SC
Type	RS20-0900VVM2TDAU

More Interfaces

Power supply/signaling contact	1 x plug-in terminal block, 6-pin
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Network size - length of cable

Twisted pair (TP)	0 - 100m
Multimode fiber (MM) 50/125 μ m	0 - 5000 m, 8 dB link budget at 1300 nm, A = 1 dB/km, 3 dB reserve, B = 800 MHz x km
Multimode fiber (MM) 62.5/125 μ m	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 μ m	0 - 32,5 km, 16 dB link budget at 1330 nm, A = 0,4 dB/km, 3 dB reserve, D = 3,5 ps/(nm x km)

Network size - cascading

Line - / star topology	Any
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Power requirements

Operating voltage	12/24/48 V DC (9,6-60) V and 24 V AC (18-30) V
Current consumption at 24 V DC	350.0 mA
Current consumption at 48 V DC	175.0 mA
Power output in Btu (IT) h	28.7

Software

Diagnostics	LEDs (power, link status, data, error), signal contact
Redundancy functions	redundant 24 V power supply

Ambient conditions

Operating temperature	-40° to +70°C
Storage/transport temperature	-40° to +85°C
Relative humidity (non-condensing)	10% to 95%
MTBF	30.88 years

Mechanical construction

Dimensions (W x H x D)	74 x 131 x 111
Mounting	DIN Rail
Weight	410 g
Protection class	IP20

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.; 0.7g, 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)	4 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 vol		e
EN 61000-4-6 conducted immunity	3 V (10 KHz - 150 KHz), 10 V (150 KHz - 80 MHz)	
EMC emitted immunity		
FCC CFR47 Part 15	FCC CFR47 Part 15 Class A	
EN 55022	EN 55022 Class A	
Approvals		
Safety of industrial control equipment	cUL 508 (pending)	
Hazardous locations	cUL 1604 class1 div 2 (pending)	
Scope of delivery and accessories		
Scope of delivery	Device, terminal block, operating manual	
Accessories to order separately	Rail power supply RPS 30, RPS 80 EEC or RPS 120 EEC, 19" installation frame	