



## SPIDER 1TX/1FX-SM

Industrial Networking:Industrial Ethernet:Rail Family:Unmanaged Rail-Switches

<b>Product description</b>	
Description	Entry Level Industrial ETHERNET Rail Switch, store and forward switching mode, Ethernet and Fast-Ethernet (10/100 Mbit/s)
Port type and quantity	1 x 10/100BASE-TX, TP cable, RJ45 sockets, auto-crossing, auto-negotiation, auto-polarity 1 x 100BASE-FX, SM cable, SC sockets
Type	SPIDER 1TX/1FX-SM
Order No.	943 891-001
<b>More Interfaces</b>	
Power supply/signaling contact	1 plug-in terminal block, 3-pin, no signal contact
<b>Network size - length of cable</b>	
Twisted pair (TP)	0 - 100 m
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
<b>Power requirements</b>	
Operating voltage	9,6 V DC - 32 V DC
Current consumption at 24 V DC	Max. 130 mA
Power consumption	Max. 3,0 W 10,2 Btu (IT)/h at 24 V DC
<b>Service</b>	
Diagnostics	LEDs (power, link status, data, data rate)
<b>Ambient conditions</b>	
Operating temperature	0 °C to +60 °C
Storage/transport temperature	-40 °C to +70 °C
Relative humidity (non-condensing)	10% to 95%
MTBF	101.5 years; MIL-HDBK 217F: Gb 25 °C
<b>Mechanical construction</b>	
Dimensions (W x H x D)	25 mm x 114 mm x 79 mm
Mounting	DIN Rail 35 mm
Weight	105 g
Protection class	IP 30
<b>Mechanical stability</b>	
IEC 60068-2-27 shock	15 g, 11 ms duration, 18 shocks
IEC 60068-2-6 vibration	3.5 mm, 3 Hz - 9 Hz, 10 cycles, 1 octave/min.; 1g, 9 Hz - 150 Hz, 10 cycles, 1 octave/min.
<b>EMC interference immunity</b>	
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, 4 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	10 V (150 kHz - 80 kHz)
<b>EMC emitted immunity</b>	
FCC CFR47 Part 15	FCC CFR47 Part 15 Class A
EN 55022	EN 55022 Class A
<b>Approvals</b>	

Safety of industrial control equipment cUL 508 (E175531)

**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