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# Data sheet
# SPIDER 4TX/1FX-SM EEC

| Industrial Ethernet:Entry Level Hubs And Switches:Unmanaged Standard Rail Switches:SPIDER 4TX/1FX-SM EEC | |
|---|---|
| **Name** | **SPIDER 4TX/1FX-SM EEC** |
| | |
| | Entry Level Industrial ETHERNET Rail Switch, store and forward switching mode, Ethernet and Fast-Ethernet (10/100 Mbit/s) |
| **Delivery informations** | |
| **Document created at** | 14-01-2011 |
| **Availability** | available |
| **Product description** | |
| **Description** | Entry Level Industrial ETHERNET Rail Switch, store and forward switching mode, Ethernet and Fast-Ethernet (10/100 Mbit/s) |
| **Port type and quantity** | 4 x 10/100BASE-TX, TP cable, RJ45 sockets, auto-crossing, auto-negotiation, auto-polarity<br>1 x 100BASE-FX, SM cable, SC sockets |
| **Type** | SPIDER 4TX/1FX-SM EEC |
| **Order No.** | 943 880-001 |
| **More Interfaces** | |
| **Power supply/signaling contact** | 1 plug-in terminal block, 3-pin, no signal contact |
| **Network size - length of cable** | |
| **Twisted pair (TP)** | 0 - 100 m |
| **Single mode fiber (SM) 9/125 µm** | 0 - 32,5 km,<br>16 dB Link Budget at 1300 nm,<br>A = 0,4 dB/km, 3 dB Reserve, D = 3,5 ps/(nm x km) |
| **Network size - cascadibility** | |
| **Line - / star topology** | Any |
| **Power requirements** | |
| **Operating voltage** | 9,6 V DC - 32 V DC |
| **Current consumption at 24 V DC** | Max. 150 mA |
| **Power consumption** | Max. 3,9 W 13,3 Btu (IT)/h at 24 V DC |
| **Service** | |
| **Diagnostics** | LEDs (power, link status, data, data rate) |
| **Ambient conditions** | |
| **Operating temperature** | -40 °C to +70 °C |
| **Storage/transport temperature** | -40 °C to +70 °C |
| **Relative humidity (non-condensing)** | 10% to 95% |
| **MTBF** | 93,9 years; MIL-HDBK 217F: Gb 25 °C |
| **Mechanical construction** | |
| **Dimensions (W x H x D)** | 25 mm x 114 mm x 79 mm |
| **Mounting** | DIN Rail 35 mm |
| **Weight** | 120 g |
| **Protection class** | IP 30 |
| **Mechanical stability** | |
| **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.;<br>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, 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) |

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|---|---|
| **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 (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 |