



SPIDER 4TX/1FX

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

| Product description | |
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| 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 1 x 100BASE-FX, MM cable, SC sockets |
| Type | SPIDER 4TX/1FX |
| Order No. | 943 221-001 |
| 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 |
| Multimode fiber (MM) 50/125 µm | 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 µm | 0 - 4000 m, 11 dB link budget at 1300 nm, A = 1 dB/km, 3 dB reserve, B = 500 MHz x km |
| Network size - cascability | |
| 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 | 0 °C to +60 °C |
| Storage/transport temperature | -40 °C to +70 °C |
| Relative humidity (non-condensing) | 10% to 95% |
| MTBF | 112.0 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.; 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) |
| EMC emitted immunity | |

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| 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 |