



Product: SPIDER-SL-20-01T1S29999SY9HHHH

Configurator: SPIDER-SL /-PL

Configurator Description

Reliably transmit large amounts of data across any distance with the SPIDER III family of industrial Ethernet switches. These unmanaged switches have plug-and-play capabilities to allow for quick installation and startup - without any tools - to maximize uptime.

Technical Specifications

Product description

| | |
|------------------------|--|
| Type | SSL20-1TX/1FX-SM (Product code: SPIDER-SL-20-01T1S29999SY9HHHH) |
| Description | Unmanaged, Industrial ETHERNET Rail Switch, fanless design, store and forward switching mode , Fast Ethernet |
| Part Number | 942132006 |
| 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 |

More Interfaces

| | |
|--------------------------------|-----------------------------------|
| Power supply/signaling contact | 1 x plug-in terminal block, 3-pin |
|--------------------------------|-----------------------------------|

Network size - length of cable

| | |
|---------------------------------|---|
| Twisted pair (TP) | 0 - 100 m |
| Single mode fiber (SM) 9/125 µm | 0 - 30 km (Link Budget at 1300 nm = 0 - 16 db; A = 0.4 dB/km; BLP = 3.5 ps/(nm*km)) |

Network size - cascability

| | |
|------------------------|-----|
| Line - / star topology | any |
|------------------------|-----|

Power requirements

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|--------------------------------|----------------------------|
| Current consumption at 24 V DC | Max. 83 mA |
| Operating Voltage | 12/24 V DC (9.6 - 32 V DC) |
| Power consumption | Max. 2.0 W |
| Power output in BTU (IT)/h | 7.0 |

Diagnostics features

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|----------------------|--|
| Diagnostic functions | LEDs (power, link status, data, data rate) |
|----------------------|--|

Ambient conditions

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|------------------------------------|---|
| MTBF | 2.705.181 h (Telcordia) 2.140.568 h (Telcordia) |
| Operating temperature | 0-+60 °C |
| Storage/transport temperature | -40-+70 °C |
| Relative humidity (non-condensing) | 10 - 95 % |

Mechanical construction

| | |
|--------------------|---------------------------------------|
| Dimensions (WxHxD) | 26 x 102 x 79 mm (w/o terminal block) |
| Weight | 100 g |
| Mounting | DIN rail |
| Protection class | IP30 plastic |

Mechanical stability

| | |
|-------------------------|--|
| IEC 60068-2-6 vibration | 3.5 mm, 5-8.4 Hz, 10 cycles, 1 octave/min 1 g, 8.4-150 Hz, 10 cycles, 1 octave/min |
|-------------------------|--|

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

EMC interference immunity

| | |
|--|---|
| EN 61000-4-2 electrostatic discharge (ESD) | 6 kV contact discharge, 8 kV air discharge |
| EN 61000-4-3 electromagnetic field | 20V/m (80 – 1000 MHz), 10V/m (1000 – 3000 MHz) |
| EN 61000-4-4 fast transients (burst) | 2 kV power line, 4 kV data line 2kV power line; 4kV data line |
| EN 61000-4-5 surge voltage | power line: 2kV (line/earth), 1kV (line/line); 1kV data line |
| EN 61000-4-6 Conducted Immunity | 10V (150 kHz - 80 MHz) |

EMC emitted immunity

| | |
|-------------------|----------------------------|
| EN 55022 | EN 55032 Class A |
| FCC CFR47 Part 15 | FCC 47CFR Part 15, Class A |

Approvals

| | |
|--|-------------------------|
| Basis Standard | CE, FCC, EN61131 |
| Safety of industrial control equipment | cUL 61010-1/61010-2-201 |

Scope of delivery and accessories

| | |
|-------------------|--|
| Accessories | Rail Power Supply RPS 30/80 EEC/120 EEC (CC), Wall mounting plate for DIN rail mounting (width 40/70 mm) |
| Scope of delivery | Device, terminal block, safety instruction |

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