



**Product:** SPIDER-SL-20-01T1M29999SY9HHHH

**Configurator:** SPIDER-SL-20-01T1M29999SY9HHHH

## 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 (Product code: SPIDER-SL-20-01T1M29999SY9HHHH )                                                                    |
| Description            | Unmanaged, Industrial ETHERNET Rail Switch, fanless design, store and forward switching mode , Fast Ethernet                     |
| Part Number            | 942132005                                                                                                                        |
| Port type and quantity | 1 x 10/100BASE-TX, TP cable, RJ45 sockets, auto-crossing, auto-negotiation, auto-polarity , 1 x 100BASE-FX, MM 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                                                                      |
| Multimode fiber (MM) 50/125 µm   | 0 - 5000 m (Link Budget at 1310 nm = 0 - 8 dB; A=1 dB/km; BLP = 800 MHz*km)    |
| Multimode fiber (MM) 62.5/125 µm | 0 - 4000 m (Link Budget at 1300 nm = 0 - 11 db; A = 1 dB/km; BLP = 500 MHz*km) |

### Network size - cascability

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

### Power requirements

|                                |                            |
|--------------------------------|----------------------------|
| 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

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

### Ambient conditions

|                                    |                         |
|------------------------------------|-------------------------|
| MTBF                               | 2.705.181 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)       | 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 |

Reliability

|           |                                                                             |
|-----------|-----------------------------------------------------------------------------|
| Guarantee | 60 months (please refer to the terms of guarantee for detailed information) |
|-----------|-----------------------------------------------------------------------------|

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                                                               |

Further Instructions

|                       |                                                                                                                 |
|-----------------------|-----------------------------------------------------------------------------------------------------------------|
| Product Documentation | <a href="https://www.doc.hirschmann.com/index.html">https://www.doc.hirschmann.com/index.html</a>               |
| Certificates          | <a href="https://www.doc.hirschmann.com/certificates.html">https://www.doc.hirschmann.com/certificates.html</a> |

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