



**Product:** SPIDER-SL-24-04T1M49999TY9HHHH

**Configurator:** SPIDER-SL-24-04T1M49999TY9HHHH

## 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

|                        |                                                                                                                                                        |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description            | Unmanaged, Industrial ETHERNET Rail Switch, fanless design, store and forward switching mode, Fast Ethernet with PoE+                                  |
| Port Type and Quantity | 4 x 10/100BASE-TX, TP cable, RJ45 sockets, auto-crossing, auto-negotiation, auto-polarity, thereof 4x PoE+ ports, 1 x 100BASE-FX, MM cable, ST sockets |

### More Interfaces

|                                |                                   |
|--------------------------------|-----------------------------------|
| Power supply/signaling contact | 1 x plug-in terminal block, 4-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

|                            |                                                           |
|----------------------------|-----------------------------------------------------------|
| Operating Voltage          | 24/48 V DC (12 - 57 V DC / 12 - 18 V DC, derating output) |
| Power consumption          | Max. 134.2 W with 120 W PoE output                        |
| Power output in BTU (IT)/h | Max. 49                                                   |

### Diagnostics features

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

### Ambient conditions

|                                    |                         |
|------------------------------------|-------------------------|
| MTBF                               | 1.447.374 h (Telcordia) |
| Relative humidity (non-condensing) | 10 - 95 %               |

### Mechanical construction

|                    |                                        |
|--------------------|----------------------------------------|
| Dimensions (WxHxD) | 37 x 115 x 130 mm (w/o terminal block) |
| Weight             | 670 g                                  |
| Mount Type         | DIN rail                               |
| Protection class   | IP30 metal housing                     |

### 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) | 4 kV contact discharge, 8 kV air discharge |
|--------------------------------------------|--------------------------------------------|

|                                      |                                                              |
|--------------------------------------|--------------------------------------------------------------|
| EN 61000-4-3 electromagnetic field   | 10V/m (80 – 3000 MHz)                                        |
| EN 61000-4-4 fast transients (burst) | 2kV power line; 4kV data line (SL-40-08T only 2kV 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 |
| Railway norm                           | EN50121-4               |

## 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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