



**Product:** SPIDER-PL-20-16T1999999TW9HHHV

**Configurator:** SPIDER-SL /-PL configurator

## 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, USB interface for configuration , Fast Ethernet |
| Port Type and Quantity | 16 x 10/100BASE-TX, TP cable, RJ45 sockets, auto-crossing, auto-negotiation, auto-polarity                                                    |

### More Interfaces

|                                |                                   |
|--------------------------------|-----------------------------------|
| Power supply/signaling contact | 1 x plug-in terminal block, 6-pin |
| USB interface                  | 1 x USB for configuration         |

### Network size - length of cable

|                   |           |
|-------------------|-----------|
| Twisted pair (TP) | 0 - 100 m |
|-------------------|-----------|

### Network size - cascadability

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

### Power requirements

|                            |                                                   |
|----------------------------|---------------------------------------------------|
| Operating Voltage          | 12/24/48 V DC (9.6 - 60 V DC), 24 V AC, redundant |
| Power consumption          | Max. 5.1 W                                        |
| Power output in BTU (IT)/h | 17.2                                              |

### Diagnostics features

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

### Software

|           |                                                                              |
|-----------|------------------------------------------------------------------------------|
| Switching | Ingress Storm Protection, Jumbo Frames, QoS / Port Prioritization (802.1D/p) |
|-----------|------------------------------------------------------------------------------|

### Ambient conditions

|                                    |            |
|------------------------------------|------------|
| Operating temperature              | -40-+70 °C |
| Minimum Storage Temperature        | -40-+85 °C |
| Relative humidity (non-condensing) | 10 - 95 %  |

### Mechanical construction

|                    |                                            |
|--------------------|--------------------------------------------|
| Dimensions (WxHxD) | 61 x 163,6 x 114,7 mm (w/o terminal block) |
| Weight             | 990 g                                      |
| Mount Type         | DIN rail                                   |
| Protection class   | IP40 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) | 8 kV contact discharge, 15 kV air discharge                  |
| EN 61000-4-3 electromagnetic field         | 20V/m (80 – 3000 MHz); 10V/m (3000 – 6000 MHz)               |
| EN 61000-4-4 fast transients (burst)       | 4kV power line; 4kV data line                                |
| EN 61000-4-5 surge voltage                 | power line: 2kV (line/earth), 1kV (line/line); 4kV 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 |
| Hazardous locations | ATEX (Zone 2)    |

## 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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