



**Product:** SPIDER-SL-20-06T1S2S299SY9HHHH

**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 , Fast Ethernet                     |
| Part Number            | 942132013  |
| Port type and quantity | 6 x 10/100BASE-TX, TP cable, RJ45 sockets, auto-crossing, auto-negotiation, auto-polarity , 2 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

|                                |                            |
|--------------------------------|----------------------------|
| Current consumption at 24 V DC | Max. 160 mA                |
| Operating Voltage              | 12/24 V DC (9.6 - 32 V DC) |
| Power consumption              | Max. 3.8 W                 |
| Power output in BTU (IT)/h     | 12.8                       |

#### Diagnostics features

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

#### Ambient conditions

|                                    |                         |
|------------------------------------|-------------------------|
| MTBF                               | 1.162.135 h (Telcordia) |
| Operating temperature              | 0-+60 °C                |
| Storage/transport temperature      | -40-+70 °C              |
| Relative humidity (non-condensing) | 10 - 95 %               |

#### Mechanical construction

|                    |                                       |
|--------------------|---------------------------------------|
| Dimensions (WxHxD) | 45 x 110 x 88 mm (w/o terminal block) |
| Weight             | 230 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) | 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)       | 2 kV power line, 4 kV data line 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 |

## 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> |

© 2021 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.