

**Product: SPR20-8TX-EEC**
**Configurator: SPR20-8TX-EEC**

**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                   | SPR20-8TX-EEC (Product code: SPIDER-PL-20-08T1999999TWWHHHH )   |
| Description            | Unmanaged, Industrial ETHERNET Rail Switch, fanless design, store and forward switching mode, USB interface for configuration , Fast Ethernet |
| Part Number            | 942335017   |
| Port Type and Quantity | 8 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**

|                                |                                       |
|--------------------------------|---------------------------------------|
| Current consumption at 24 V DC | Max. 100 mA                           |
| Operating Voltage              | 12/24 V DC (9.6 - 32 V DC), redundant |
| Power consumption              | Max. 2.6 W                            |
| Power output in BTU (IT)/h     | 8.8                                   |

**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**

|  |                         |
|--|-------------------------|
| MTBF                                   | 1.206.410 h (Telcordia) |
| MTBF (Telcordia SR-332 Issue 3) @ 25°C | 3 782 846 h             |
| Operating temperature                  | -40 +70 °C              |
| Minimum Storage Temperature            | -40 +85 °C              |
| Relative humidity (non-condensing)     | 10 - 95 %               |

**Mechanical construction**

|                    |  |
|--------------------|--|
| Dimensions (WxHxD) | 49 x 135 x 117 mm (w/o terminal block) |
| Weight             | 440 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 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                  |
| Hazardous locations                    | ISA 12.12.01 Class 1 Div. 2; ATEX Zone 2 |
| Shipbuilding                           | DNVGL                                    |
| Railway norm                           | EN50121-4                                |
| Transportation                         | E1                                       |

## 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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