HIRSCHMANN
A **BELDEN** BRAND

Product: SPIDER-PL-20-07T1S2S299TW9HHHH

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	7 x 10/100BASE-TX, TP cable, RJ45 sockets, auto-crossing, auto-negotiation, auto-polarity , 2 x 100BASE-FX, SM cable, SC sockets

Product Life Cycle

Availability	passiv
Last Order Date	2023-09-30
Last Delivery Date	2023-12-31

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
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 - cascadability

Line - / star topology	any

Power requirements

Current consumption at 24 V DC	Max. 280 mA
Operating Voltage	12/24 V DC (9.6 - 32 V DC), redundant
Power consumption	Max. 6.9 W
Power output in BTU (IT)/h	23.7

Diagnostics features

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

Ambient conditions

MTBF	852.056 h (Telcordia) 731.432 h (Telcordia)
Operating temperature	-40-+70 °C
Storage/transport temperature	-40-+85 °C
Relative humidity (non-condensing)	10 - 95 %

Mechanical construction

Dimensions (WxHxD)	56 x 135 x 117 mm (w/o terminal block)
Weight	510 g
Mounting	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)
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	https://www.doc.hirschmann.com/index.html
Certificates	https://www.doc.hirschmann.com/certificates.html

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