



Product: SPR20-8TX/1FM-EEC

Configurator: SPR20-8TX/1FM-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/1FM-EEC (Product code: SPIDER-PL-20-08T1M29999TWWHHH)
Description	Unmanaged, Industrial ETHERNET Rail Switch, fanless design, store and forward switching mode, USB interface for configuration , Fast Ethernet
Part Number	942335028
Port type and quantity	8 x 10/100BASE-TX, TP cable, RJ45 sockets, auto-crossing, auto-negotiation, auto-polarity , 1 x 100BASE-FX, MM cable, SC sockets

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
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 - cascading

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

Power requirements

Current consumption at 24 V DC	Max. 200 mA
Operating Voltage	12/24 V DC (9.6 - 32 V DC), redundant
Power consumption	Max. 5.0 W
Power output in BTU (IT)/h	16.9

Diagnostics features

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

Ambient conditions

MTBF	954.743 h (Telcordia)
MTBF (Telcordia SR-332 Issue 3) @ 25°C	3 498 388 h
Operating temperature	-40-+65 °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 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
Substation	IEC61850-3; IEEE1613
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	https://www.doc.hirschmann.com/index.html
Certificates	https://www.doc.hirschmann.com/certificates.html

© 2024 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.