



Product: [SPIDER 1TX/1FX](#)

Unmanaged 2-port Switch for media conversion

Product Description

Unmanaged Industrial Ethernet DIN Rail Mount Switch, store and forward switching mode, 1 x 10/100 Mbit/s RJ45, 1 x 100 Mbit/s MM SC

Technical Specifications

Product description

Description:	Entry Level Industrial ETHERNET Rail Switch, store and forward switching mode, Ethernet and Fast-Ethernet (10/100 Mbit/s)
Part Number:	943890001
Port type and quantity:	1 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, 3-pin, no signaling contact
---------------------------------	---

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 1310 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. 130 mA
Operating Voltage:	9,6 V DC - 32 V DC
Power consumption:	Max. 3,0 W 10,2 Btu (IT)/h at 24 V DC

Diagnostics features

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

Ambient conditions

MTBF (MIL-HDBK 217F: Gb 25 °C):	128.1 Years
Operating temperature:	0-+60 °C
Storage/transport temperature:	-40-+70 °C
Relative humidity (non-condensing):	10-95 %

Mechanical construction

Dimensions (WxHxD):	25 mm x 114 mm x 79 mm
Weight:	105 g
Mounting:	DIN Rail
Protection class:	IP30

Mechanical stability

IEC 60068-2-6 vibration:	3.5 mm, 3 Hz-9 Hz, 10 cycles, 1 octave/min.; 1g, 9 Hz-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):	6 kV contact discharge, 8 kV air discharge
EN 61000-4-3 electromagnetic field:	10 V/m (80-1000 MHz)
EN 61000-4-4 fast transients (burst):	2 kV power line, 4 kV data line
EN 61000-4-5 surge voltage:	power line: 2 kV (line/earth), 1 kV (line/line), 1 kV data line
EN 61000-4-6 Conducted Immunity:	10 V (150 kHz-80 MHz)

EMC emitted immunity

EN 55022:	EN 55022 Class A
FCC CFR47 Part 15:	FCC 47CFR Part 15, Class A

Approvals

Safety of industrial control equipment:	cUL 508
---	---------

Further Instructions

Product Documentation:	https://www.doc.hirschmann.com
Certificates:	https://www.doc.hirschmann.com/certificates.html

History

Update and Revision:	Revision Number: 0.126 Revision Date: 03-10-2023
----------------------	--

Variants

Item #	Type
943890001	Spider 1TX/1FX

© 2023 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.