

etherRail, 4 Port Ethernet Switch managed SM 4TX

Technical Data

General Data	
Type of housing	Polyamide PA 6.6
Inflammability	VO (UL94)
Housing dimensions	22.5 mm x 99 mm x 111 mm 1.772 in. x 3.898 in. x 4.370 in.
Mounting	DIN rail according DIN EN 50 022
Mounting position	Perpendicular to DIN rail
Degree of protection	IP 20
Permissible operating temperature (type E)	-40 °C to +70 °C
Permissible operating temperature (type I)	-40 °C to +85 °C
Permissible storage temperature	-40 °C to +85 °C
Permissible humidity for operation	30% to 80% no condensation
Permissible humidity for storage	30% to 80% no condensation

Conformance with EMC Directives	
Conducted noise on the power supply 150 kHz to 30 MHz	EN 55022 / EN 55011 Chapter 5 Class A (industrial)
Emitted interface 30 MHz to 1000 MHz	EN 55022 / EN 55011 Chapter 6 Class A (industrial)
Immunity to ESD (Level 3)	IEC 61000-4-2 Criterion B
Immunity to radiated interference 10V/m	IEC 61000-4-3 Criterion A
Immunity to burst on the power supply 2.2 kV	IEC 61000-4-4 Criterion A
Immunity to burst on the data cable 1 kV	IEC 61000-4-4 Criterion A
Immunity to surge on the power supply 0.5 kV	IEC 61000-4-5 Criterion B
Immunity to conducted interference 10 V	IEC 61000-4-6 Criterion A
Immunity to magnetic fields 30 A/m at 50 Hz	IEC 61000-4-8 Criterion A

Power supply	
Number of inputs	2
Input voltage range	9,5 V to 32 V DC
Max. power consumption	2,5 W
Current consumption at 24 V DC and max. power consumption	185 mA
Protection against polarity reversal	Diode
Transient surge protection	Varistor
Electrical Isolation	no
Connection	COMBICON-connector
Cable diameter	0.2 mm ² ...2.5 mm ² rigid/flexibel AWG 24 ... 14

Ethernet Interfaces	
Number	4
Connector	RJ 45-Jack shielded
Cable	Twisted Pair shielded
Cable impedance	100 Ohm
Transmission rate	Automatically 10 Mbps or 100 Mbps
Duplex	Automatically Full- or Half-Duplex
Return Loss	16 dB @ 1 MHz to 30 MHz 10 dB @ 30 MHz to 60 MHz
Max. cable length	150 m using CAT5 cable
Isolation to system and shielding	yes
Dielectric Withstand Voltage	1500 VAC

Serial Interface USB	
Connection	USB B- female

Management Functionality	
Protokols	BootP, HTTP, IGMP, SMNP v1 und v2, RSTP
Service Quality(QoS)	Frame Priority nach IEEE 802.p (tagged), Port Mirroring / Status