



## RS2-3TX/2FX-SM EEC

Industrial Networking:Industrial Ethernet:Rail Family:Unmanaged Rail-Switches

### Product description

Description	Unmanaged Industrial ETHERNET Rail Switch, store and forward switching mode, Ethernet (10 Mbit/s) and Fast-Ethernet (100 Mbit/s)
Port type and quantity	3 x 10/100BASE-TX, TP cable, RJ45 sockets, auto-crossing, auto-negotiation, auto-polarity, 2 x 100BASE-FX, SM cables, SC sockets
Type	RS2-3TX/2FX-SM EEC
Order No.	943 772-001

### More Interfaces

Power supply/signaling contact	1 plug-in terminal block, 5-pin
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### Network size - length of cable

Twisted pair (TP)	0 - 100 m
Single mode fiber (SM)9/125 µm	0 - 32.5 km, 16 dB link budget at 1300 nm, A = 0.4 dB/km, 3 dB reserve, D = 3.5 ps/(nm x km)

### Network size - cascability

Line - / star topology	any
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### Power requirements

Operating voltage	24 V DC (-25% to +30%)
Current consumption at 24 V DC	max. 230 mA

### Service

Diagnostics	LEDs (power, link status, data, error), signal contact / fault relays (24 V DC / 1 A)
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### Redundancy

Redundancy functions	redundant 24 V power supply
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### Ambient conditions

Operating temperature	-40 °C to +70 °C
Storage/transport temperature	-40 °C to +85 °C
Relative humidity (non-condensing)	10% to 95%
MTBF	47.2 years; MIL-HDBK 217F: Gb 25 °C

### Mechanical construction

Dimensions (W x H x D)	47 mm x 135 mm x 111 mm
Mounting	DIN Rail 35 mm
Weight	320 g
Protection class	IP 20

### Mechanical stability

IEC 60068-2-27 shock	15 g, 11 ms duration, 18 shocks
IEC 60068-2-6 vibration	1 mm, 2 Hz - 13.2 Hz, 90 min.; 0.7g, 13.2 Hz - 100 Hz, 90 min.; 3.5 mm, 3 Hz - 9 Hz, 10 cycles, 1 octave/min.; 1g, 9 Hz - 150 Hz, 10 cycles, 1 octave/min.

### 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, 1 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 3 V (10 kHz - 150 kHz), 10 V (150 kHz - 80 MHz)

## EMC emitted immunity

FCC CFR47 Part 15 FCC CFR47 Part 15 Class A

EN 55022 EN 55022 Class A

## Approvals

Safety of industrial control equipment cUL 508 (E175531)

Hazardous locations cUL 1604 Class 1 Div 2 (E203960)

Safety of information technology equipment cUL 60950 (E168643)

Germanischer Lloyd Germanischer Lloyd (15 662 - 00 HH)

## Scope of delivery and accessories

Scope of delivery device, terminal block, operating manual

Accessories to order separately rail power supply RPS 30, RPS 80 EEC or RPS 120 EEC, 19" installation frame