



Ethernet System for Industrial Requirements

Media Converter SC 1TX1FX

The SC 1TX1FX is a compact Ethernet media converter equipped with 1TX and 1FX port. The SC 1TX1FX was designed for use cases that demands high transmission ranges for network segments at different locations or high interference resistance in EMC- critical areas.

Characteristics

- Ethernet protocol: Support to Fast-Ethernet (100Base- TX/TF)
- Channel separation: Separate conversion electrical/optical, and vice versa
- Low latency: Transparent data conversion without intermediate storage
- Conversion mode: Link partner connection in Full- or Half-duplex mode
- Dependability: High availability assured by compliance to relevant industrial standards
- High resistance against EMC- interference



SC 1TX/1FX



Technische Daten

ETHERNET INTERFACE RJ45

Number	1
Connector	RJ 45 – female
Transmission media	TP cable (UTP/STP)
Transmission rate	100 MBit/s (100Base-TX)
Auto-crossover	Yes
Auto-negotiation	No
Auto-polarity	No
Duplex mode	Full duplex
Maximum cable length	10m with CAT-5
Galvanic isolation	Yes

ETHERNET- INTERFACE SC

Number	1
Connector	SC-Duplex-female
Transmission media	Fibre optics
Transmission rate	100 MBit/s (100Base-FX)
Wave length	1300 nm

GENERAL DATA

Dimensions (BHT)	22.5 mm x 99 mm x 111 mm
Mounting	Top hat rail (DIN EN 50 022)
Mounting position	Vertical
Degree of protection	IP 20
Operating temperature range	optional -40 °C to +70°C
Storing temperature range	-40 °C to +70°C
Operating and storing humidity range	30% to 95% (not condensed)
Weight (without plug)	184 g

POWER SUPPLY

Input voltage range	16,8 V ... 31,2 V DC
Inputs	2
Reverse voltage protection	Diode
Transient suppression	Suppressor diode
Galvanic isolation	No
Connector	COMBICON-plug
Cable diameter	0.2 mm ² to 2.5 mm ² fixed/flexible, AWG 24 ... 14

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