FL SWITCH SFN 8GT - Industrial Ethernet Switch

2891673

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Ethernet switch, eight TP-RJ45 ports with 10/100/1000 Mbps on all ports, automatic detection of data transmission speed of 10/100/1000 Mbps (RJ45), autocrossing function, with signaling contact and QoS, extended temperature range

Your advantages

- All ports offer transmission speeds of 1000 Mbps
- Jumbo frame support (frame size up to 9600 bytes/frame)
- The switch also offers cable locking and port blocking
- Local diagnostic indicators with LEDs
- Relay contact for alarm processing of voltage states
- Auto negotiation and autocrossing detection simplifies installation and setup

Commercial data

Item number	2891673
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN19
Product key	DNN113
GTIN	4046356101172
Weight per piece (including packing)	542.8 g
Weight per piece (excluding packing)	395 g
Customs tariff number	85176200
Country of origin	TW

Technical data

Dimensions

Width	50 mm
Height	120 mm
Depth	70 mm

Notes

Note on application

Note on application	Only for industrial use

Material specifications

Housing material	Aluminum

Mounting

Mounting type	DIN rail mounting

Interfaces

Ethernet (RJ45)

Connection method	RJ45
Note on the connection method	Auto negotiation and autocrossing
Transmission speed	10/100/1000 Mbps
Transmission physics	Ethernet in RJ45 twisted pair
No. of channels	8 (RJ45 ports)

Potential-free signaling contact

Connection method	Plug-in/screw connection via COMBICON

Output data

Signal contact

Control voltage	Monitoring of the redundant supply voltage

Product properties

Product type	Switch
Product family	Unmanaged Switch SFN
Type	Block design
MTTF	55.4 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%)

Insulation characteristics

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)

Switch functions

Signal contact control voltage	Monitoring of the redundant supply voltage

PROFINET conformance class	Conformance Class A
Status and diagnostic indicators	LEDs: U_{S1}, U_{S2} (redundant voltage supply), link and activity per port
Basic functions	Unmanaged switch / auto negotiation, complies with IEEE 802.3, store and forward switching mode
Additional functions	Autonegotiation
	Jumbo frames (max. 9,600 bytes)

Electrical properties

Local diagnostics	US1/2 Supply voltage Green LED
	100/ACT Link status/data transmission Yellow LED
	1000/ACT Link status/data transmission Yellow LED
Maximum power dissipation for nominal condition	10.32 W
Test section	500 V DC 1 min
Transmission medium	Copper
	FO

Supply

Supply voltage (DC)	24 V DC (redundant)
Supply voltage range	9 V DC ... 32 V DC
Residual ripple	3.6 V_{PP} (within the permitted voltage range)
Typical current consumption	430 mA (at U_S = 24 V DC)

Connection data

Power supply

Connection method	Screw connection
Conductor cross-section, rigid	0.2 mm² ... 2.5 mm²
Conductor cross-section, flexible	0.2 mm² ... 2.5 mm²
Conductor cross-section AWG	24 ... 12
Stripping length	7 mm

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 75 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	5 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	5 % ... 95 % (non-condensing)
Vibration (operation)	in acc. with IEC 60068-2-6: 5g, 150 Hz
Air pressure (operation)	86 kPa ... 108 kPa (up to 1500 m above sea level)
Air pressure (storage/transport)	66 kPa ... 108 kPa (up to 3500 m above sea level)
Resistance to gases that may endanger the functions, in acc. with DIN 40046-36, DIN 40046-37	Sulfur dioxide (SO_2) 10 ±0.3 cm^3/m^3, hydrogen sulfide (H_2S) 1 ±0.3 cm^3/m^3, at 25°C and 75% humidity and exposure of four days

Approvals

Conformity/Approvals

Conformance	CE-compliant
UL, USA / Canada	Class I, Div. 2, Groups A, B, C, D

EMC data

Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Noise immunity	EN 61000-6-2:2005

Noise emission

Standards/regulations	EN 61000-6-4

Signaling

Status display	LEDs: U_{S1}, U_{S2} (redundant voltage supply), link and activity per port

Classifications

ECLASS

ECLASS-13.0	19170402
ECLASS-15.0	19170402

ETIM

ETIM 9.0	EC000734

UNSPSC

UNSPSC 21.0	43222600

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 7(a), 7(c)-I

China RoHS

Environment friendly use period (EFUP)	EFUP-10
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)

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