

FL SWITCH 5TX-ZF - Industrial Ethernet Switch



2832894

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Ethernet switch, 5 Ethernet ports on the front in RJ45 format, automatic detection of 10 or 100 Mbps data transmission speed, coupling of network segments with different transmission speeds, autocrossing function, DIN-rail mountable

Commercial data

Item number	2832894
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DN19
Product key	DNN111
GTIN	4017918913229
Weight per piece (including packing)	317 g
Weight per piece (excluding packing)	300.7 g
Customs tariff number	84718000
Country of origin	DE

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Technical data

Dimensions

Width	45 mm
Height	99 mm
Depth	112 mm

Material specifications

Color	green
Housing material	PA 6.6

Mounting

Mounting type	DIN rail mounting
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Interfaces

Ethernet

Connection method	5 ports 10/100BaseT(X) auto negotiation and autocrossing
Transmission speed	10/100 Mbps
Transmission physics	Ethernet in RJ45 twisted pair
Transmission length	100 m (per segment)
Signal LEDs	Data receive, link status

Potential-free signaling contact

Connection method	Plug-in/screw connection via COMBICON
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Product properties

Product type	Switch
Type	Stand-alone

Insulation characteristics

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

Basic functions	Unmanaged switch / auto negotiation, complies with IEEE 802.3, store and forward switching mode
Status and diagnostic indicators	LEDs: U _{S1} , U _{S2} (redundant voltage supply), link and activity per port
Additional functions	Autonegotiation

Security functions

Basic functions	Unmanaged switch / auto negotiation, complies with IEEE 802.3, store and forward switching mode
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Electrical properties

Local diagnostics	US1, US2 Supply voltage US1, US2 Green LED
	One LED per port Link active Green LED

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	One LED per port Telegrams received Yellow LED
Maximum power dissipation for nominal condition	4.3 W
Test section	500 V DC 1 min
Transmission medium	Copper

Supply

Supply voltage	24 V DC
Supply voltage range	18.5 V DC ... 30.2 V DC
Power supply connection	Via spring-cage COMBICON; max. conductor cross-section 2.5 mmsup2
Residual ripple	3.6 V _{PP} (within the permitted voltage range)
Typical current consumption	180 mA (to U _S)

Connection data

Connection method	RJ45, shielded
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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	0 °C ... 55 °C (non-condensing)
Ambient temperature (storage/transport)	-20 °C ... 70 °C
Permissible humidity (operation)	30 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	30 % ... 95 % (non-condensing)
Vibration (operation)	in acc. with IEC 60068-2-6: 5g, 150 Hz
Air pressure (operation)	86 kPa ... 108 kPa (1500 m above sea level)
Air pressure (storage/transport)	66 kPa ... 108 kPa (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 ₂ S) 1 ±0.3 cm ³ /m ³ , at 25°C and 75% humidity and exposure of four days

Standards and regulations

Free from substances that could impair the application of coating	In acc. with VW specification
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EMC data

Electromagnetic compatibility	Conformance with EMC directive 89/336/EC
Conformance with EMC directives	IEC 61000-6-2 IEC 61000-4-2 (ESD) Criterion B
	IEC 61000-6-2 IEC 61000-4-3 (immunity to radiated interference) Criterion A
	IEC 61000-6-2 IEC 61000-4-4 (burst) Criterion A
	IEC 61000-6-2 IEC 61000-4-5 (surge) Criterion B
	IEC 61000-6-2 IEC 61000-4-6 (immunity to conducted interference) Criterion A
	IEC 61000-6-2 IEC 61000-4-8 (immunity to magnetic fields) Criterion A
Noise immunity	IEC 61000-6-2 EN 55022 (emitted interference) Criterion A EN 61000-6-2:2005

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Noise emission

Standards/regulations

EN 61000-6-4

System properties

Functionality

Basic functions

Unmanaged switch / auto negotiation, complies with IEEE 802.3, store and forward switching mode

Signaling

Status display

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

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Environmental product compliance

EU REACH SVHC

REACH candidate substance (CAS No.)	
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	No substance above 0.1 wt%
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