#### 2891952

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High temperature Ethernet switch, 16 TP RJ45 ports, automatic detection of data transmission speed of 10/ 100 Mbps (RJ45), autocrossing function

## **Product Description**

Standard function Ethernet switch with 16 RJ45 ports for extreme environments (-40°C ... +75°C). Provides automatic detection of data transmission speed of 10 or 100 Mbps (RJ45), autocrossing function, 12 V DC ... 48 V DC input voltage, redundant power supply capable with remote alarming.

### Your advantages

- · RJ45 ports support a transmission speed of 10/100 Mbps
- Fiber-optic ports support 100 Mbps
- · 16 ports in a narrow metal housing with redundant input voltage
- · Security options with cable locking
- · Local diagnostic indicators with LEDs
- Devices are available for the standard temperature range (0 °C ... 60 °C) and wide temperature range (-40 °C ... 75 °C)
- · Auto negotiation and autocrossing detection simplifies installation and setup

## **Commercial Data**

Item number	2891952
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	C23
Product Key	DNN113
Catalog Page	Page 293 (C-6-2019)
GTIN	4046356551618
Weight per Piece (including packing)	1,193.5 g
Weight per Piece (excluding packing)	1,193.5 g
Customs tariff number	85176200
Country of origin	TW

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## **Technical Data**

### Dimensions

Width	70 mm
Height	135 mm
Depth	110 mm

### Notes

Utilization restriction	
CCCex note	Use in potentially explosive areas is not permitted in China.
Material specifications	
Housing material	Aluminum

## Mounting

lounting	
Mounting type	DIN rail mounting

### Interfaces

Ethernet (RJ45)	
Connection method	RJ45
Note on the connection method	Auto negotiation and autocrossing
Transmission speed	10/100 Mbps
Transmission physics	Ethernet in RJ45 twisted pair
Transmission length	100 m (per segment)
No. of channels	16 (RJ45 ports)

### Product properties

Туре	Block design
Product type	Switch
MTTF	55.9 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%)
sulation characteristics	
Protection class	III (VDE 0106, IEC 60536)
ritch functions Basic functions	Unmanaged switch / auto negotiation, complies with IEEE 802.
	store-and-forward switching mode, includes alarm contacts
Signal contact control voltage	24 V DC
Signal contact control current	1 A
Status and diagnostic indicators	LEDs: $U_{S1}$ , $U_{S2}$ (redundant voltage supply), link and activity per port

Security functions

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Basic functions	Unmanaged switch / auto negotiation, complies with IEEE 802.3 store-and-forward switching mode, includes alarm contacts
ectrical properties	
Local diagnostics	US Supply voltage Green LED
	LNK/ACT Link status/data transmission Green LED
	100 Data transmission speed Yellow LED
Maximum power dissipation for nominal condition	8.4 W
Test section	500 V DC 1 min.
Transmission medium	Copper
Supply	
Supply voltage (DC)	24 V DC (redundant)
Supply voltage range	12 V DC 48 V DC
Power supply connection	Via COMBICON, max. conductor cross section 2.5 mm <sup>2</sup>
Residual ripple	3.6 $V_{PP}$ (within the permitted voltage range)
Max. current consumption	700 mA (at 12 V DC)
Typical current consumption	350 mA (at U <sub>S</sub> = 24 V DC)
Function	
Signal contact control voltage	24 V DC
Signal contact control current	1 A
onnection data	
Connection method	Screw connection
Conductor cross section, rigid	0.2 mm <sup>2</sup> 2.5 mm <sup>2</sup>
Conductor cross section, flexible	0.2 mm <sup>2</sup> 2.5 mm <sup>2</sup>
Conductor cross section AWG	30 12
Stripping length	7 mm
nbient 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)
Shock	25g, in accordance with IEC 60068-2-27
Vibration (operation)	in acc. with IEC 60068-2-6: 5g, 150 Hz
Air pressure (operation)	62 kPa 108 kPa (up to 4160 m above mean sea level)
Air pressure (storage/transport)	62 kPa 108 kPa (up to 4160 m above mean sea level)

### Approval data

Conformity/Approvals	
Conformance	CE-compliant
ATEX	□ II 3 G Ex nA nC IIC T4 Gc

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EU-type examination certificate	DEMKO 16 ATEX 1617X
IECEx	Ex nA nC IIC T4 Gc
IECEx certificate	IECEx UL 16.0093X
UL, USA / Canada	Class I, Div. 2, Groups A, B, C, D

### EMC data

Conformance with EMC directives	IEC 61000-6-2
Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Noise emission	EN 61000-6-4
Noise immunity	EN 61000-6-2

## LED signaling

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

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Approvals		
ERC	EAC Approval ID: RU D-DE.GB09.B.00312	
	UL Listed Approval ID: FILE E 140324	
•	CUL Listed Approval ID: FILE E 140324	
H C A	Tex IECEX Approval ID: IECEX UL 16.0093X	
•	CUL Listed Approval ID: FILE E 199827	
<u>©</u>	UL Listed Approval ID: FILE E 199827	
Æx)	ATEX Approval ID: DEMKO 16 ATEX 1617X	
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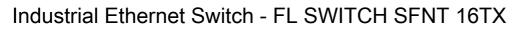
## Classifications

### ECLASS

ECLASS-9.0	19170106
ECLASS-10.0.1	19170402
ECLASS-11.0	19170402

### ETIM

	ETIM 8.0	EC000734	
UNSPSC			
	UNSPSC 21.0	43222600	



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## **Environmental Product Compliance**

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 10;
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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## Accessories

PCB connector

PCB connector - MSTB 2,5/ 2-ST - 1754449 https://www.phoenixcontact.com/us/products/1754449



PCB connector, nominal cross section: 2.5 mm<sup>2</sup>, color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, type of contact: Female connector, number of potentials: 2, number of rows: 1, number of positions: 2, number of connections: 2, product range: MSTB 2,5/..-ST, pitch: 5 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard

### PCB connector

PCB connector - MSTB 2,5/ 5-ST - 1754504 https://www.phoenixcontact.com/us/products/1754504



PCB connector, nominal cross section: 2.5 mm<sup>2</sup>, color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, type of contact: Female connector, number of potentials: 5, number of rows: 1, number of positions: 5, number of connections: 5, product range: MSTB 2,5/..-ST, pitch: 5 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard

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Surge protection device

Surge protection device - DT-LAN-CAT.6+ - 2881007 https://www.phoenixcontact.com/us/products/2881007



Surge protection in accordance with Class  $E_A$  (CAT6<sub>A</sub>), for Gigabit Ethernet (up to 10 Gbps), token ring, FDDI/CDDI, ISDN, and DS1. Suitable for Power over Ethernet (PoE++ / 4PPoE) "Mode A" and "Mode B". RJ45 attachment plug with separate grounding cable and ground connection snap-on foot for NS 35 DIN rails.

### Patch cable

Patch cable - FL CAT5 PATCH 0,5 - 2832263 https://www.phoenixcontact.com/us/products/2832263



Patch cable, CAT5, assembled, 0.5 m

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Patch cable

Patch cable - FL CAT5 PATCH 1,0 - 2832276 https://www.phoenixcontact.com/us/products/2832276

Patch cable, CAT5, assembled, 1 m



Patch cable

Patch cable - FL CAT5 PATCH 2,0 - 2832289 https://www.phoenixcontact.com/us/products/2832289



Patch cable, CAT5, assembled, 2 m

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Patch cable

Patch cable - NBC-R4AC-R4AC-IE8A/.../... - 1411854 https://www.phoenixcontact.com/us/products/1411854



Patch cable, degree of protection: IP20, number of positions: 8, 10 Gbps,  $CAT6_A$ , cable outlet: straight, Ethernet

### Patch cable

Patch cable - NBC-R4AC/10G-R4AC/10G-94F/2,0 - 1408360 https://www.phoenixcontact.com/us/products/1408360



Patch cable,  $CAT6_A$ , 4-pair, shielded, connection not crossed (line), assembled at both ends with RJ45/IP20 connectors, outer sheath material: PUR, length: 2.0 m

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### Patch cable

Patch cable - NBC-R4AC/10G-R4AC/10G-94F/3,0 - 1408365 https://www.phoenixcontact.com/us/products/1408365



Patch cable,  $CAT6_A$ , 4-pair, shielded, connection not crossed (line), assembled at both ends with RJ45/IP20 connectors, outer sheath material: PUR, length: 3.0 m

### Port Guard Security Element

Port Guard Security Element - FL SEC PAC 4TX - 2832865 https://www.phoenixcontact.com/us/products/2832865

Layer1 security elements for four RJ45 network connections for use with patch boxes and panels



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DIN rail adapter

DIN rail adapter - FL DIN RA - 2891053 https://www.phoenixcontact.com/us/products/2891053

The FL DIN RA is installed in a standard, 19-inch rack (EIA-310-D, IEC 60297-3-100) to allow DIN rail mounted equipment to be rack mounted.



### Dust protection

Dust protection - FL RJ45 PROTECT CAP - 2832991 https://www.phoenixcontact.com/us/products/2832991



Dust protection caps for RJ45 socket

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End clamp

End clamp - E/NS 35 N - 0800886 https://www.phoenixcontact.com/us/products/0800886

End clamp, width: 9.5 mm, color: gray



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