

FL SWITCH 2708 - Industrial Ethernet Switch



1106615

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Managed Switch 2000 series, 8 M12 ports 10/100/1000 Mbps, degree of protection: IP65/IP66/IP67, PROFINET Conformance-Class B, Extended temperature range, Development process certified in accordance with IEC 62443-4-1, Compatible with IEC 62443-4-2

Your advantages

- Robust IP67 housing
- Easy panel mounting

Commercial data

Item number	1106615
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN17
Product key	DNN126
GTIN	4063151001674
Weight per piece (including packing)	1,444 g
Weight per piece (excluding packing)	1,400 g
Customs tariff number	85176200
Country of origin	DE

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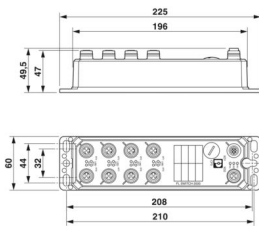


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Technical data

Dimensions

Dimensional drawing		
Width		60 mm
Height		226 mm
Depth		46 mm
Drill hole spacing		210 mm

Notes

General	Support by phone or on-site (fee is charged)
Note on application	
Note on application	Only for industrial use

Material specifications

Housing material	Die-cast zinc
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Mounting

Mounting type	Panel mounting
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Interfaces

Ethernet

Connection method	M12 connector, X-coded
Note on the connection method	Auto negotiation and autocrossing
Transmission speed	10/100/1000 Mbps
Transmission physics	Copper
Transmission length	100 m (per segment)
Signal LEDs	Data receive, link status
No. of channels	8 (M12 ports)

Product properties

Product type	Switch
Product family	Managed Switch 2000
Type	Stand-Alone
MTTF	461.15 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)

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	149.69 Years (SN 29500 standard, temperature 40°C, operating cycle 34.25%)
	19.78 Years (SN 29500 standard, temperature 70°C, operating cycle 100%)
Special properties	Extended temperature range
	Development process certified in accordance with IEC 62443-4-1
	Compatible with IEC 62443-4-2
Signal delay	≥ 1.9 µs (Store-and-Forward mode, 10/100/1000 Mbps, depending on the frame size)

Insulation characteristics

Protection class	III (VDE 0106)
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Switch functions

Diagnostic functions	RMON History
	LLDP (Link Layer Discovery Protocol)
	SNMP-Traps
	N:1-Portmirroring
	ACD (Address Conflict Detection)
	SysLog
	CRC-Surveillance
Basic functions	Store-and-forward switch, complies with IEEE 802.3
PROFINET conformance class	Conformance-Class B
PROFINET device function	PROFINET device
	Fast Startup
Filter functions	Quality of Service (8 priority classes)
	Class of Service
	DiffServ/DSCP
	Port-Priorisierung
	VLAN (up to 32 VLANs)
	IGMP Snooping/Querier (v1/v2)
	Auto-Query-Port
	Extended Multicast Filtering
IP parameterization	DHCP client
	DHCP Option 82 (Relay Agent)
	DHCP server (pool-based, port-based)
	BootP
	DCP (Discovery and Configuration Protocol)
MAC address table	8k
Management	Web-based management (HTTP/HTTPS)
	Role-based user management (LDAP, RADIUS)
	SNMPv1/v2/v3
	Command Line Interface (Telnet, SSH)
Redundancy	MRP (Media Redundancy Protocol)
	RSTP (Rapid Spanning Tree Protocol)
	FRD (Fast Ring Detection)

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	Large Tree Support
	LACP (Link Aggregation Control Protocol)
	PROFINET S2 system redundancy
Status and diagnostic indicators	LEDs: US1, US2 (power supply), Fail, 2 LEDs per Ethernet port (Link/Activity and Speed)
Additional functions	Jumbo frames (max. 9,600 bytes)
	Transmission of MMS and GOOSE (IEC 61850-8-1)
	Transmission of Modbus/TCP
Time synchronization	SNTP (Simple Network Time Protocol)
Security functions	
Port security	MAC-based, RADIUS (IEEE 802.1X), MAC Authentication Bypass
Basic functions	Store-and-forward switch, complies with IEEE 802.3

Electrical properties

Current consumption	260 mA
Local diagnostics	US1/2 Supply voltage US1, US2 Green LED
	FAIL Div. LED red
	LINK Link status Green LED
Maximum power dissipation for nominal condition	6.93 W ($U_S = \min$, $T_{amb} = \max$)
Test section	24 V supply / functional ground 500 V DC 1 min
	Ethernet interface/all other potentials 2.25 kV DC 1 min
Transmission medium	Copper

Supply

Supply voltage (DC)	24 V DC (redundant)
Supply voltage range	9 V DC ... 57 V DC
Residual ripple	3.6 V _{PP} (within the permitted voltage range)
Max. current consumption	0.77 A ($U_S = \min$, $T_{amb} = \max$)
Typical current consumption	260 mA (at $U_S = 24$ V DC and 25 °C ambient temperature)
Current consumption	260 mA

Connection data

Connection method	M12 connector, A-coded
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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65
	IP66
	IP67
Ambient temperature (operation)	-40 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	5 % ... 95 %
Permissible humidity (storage/transport)	5 % ... 95 %

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Shock (operation)	30g (EN 60068-2-27)
Vibration (operation)	in acc. with IEC 60068-2-6: 5g, 150 Hz
Air pressure (operation)	79 kPa ... 108 kPa up to 2000 m above mean sea level (Without derating)
Air pressure (storage/transport)	79 kPa ... 108 kPa up to 2000 m above mean sea level (Without derating)

Standards and regulations

Free from substances that could impair the application of coating	Yes
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EMC data

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Conformance with EMC directives	EN 61000-6-2 EN 61000-4-2 (ESD) Criterion B
	EN 61000-6-2 EN 61000-4-3 (electromagnetic fields) Criterion A
	EN 61000-6-2 EN 61000-4-4 (EFT burst) Criterion A
	EN 61000-6-2 EN 61000-4-5 (surge) Criterion B
	EN 61000-6-2 EN 61000-4-6 (line noise immunity) Criterion A
	EN 61000-6-3 (conducted emissions) Class B
Noise immunity	EN 61000-6-3 (conducted emissions) Class B
	EN 61000-6-2

Noise emission

Standards/regulations	EN 61000-6-3
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System properties

Functionality

Basic functions	Store-and-forward switch, complies with IEEE 802.3
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Signaling

Status display	LEDs: US1, US2 (power supply), Fail, 2 LEDs per Ethernet port (Link/Activity and Speed)
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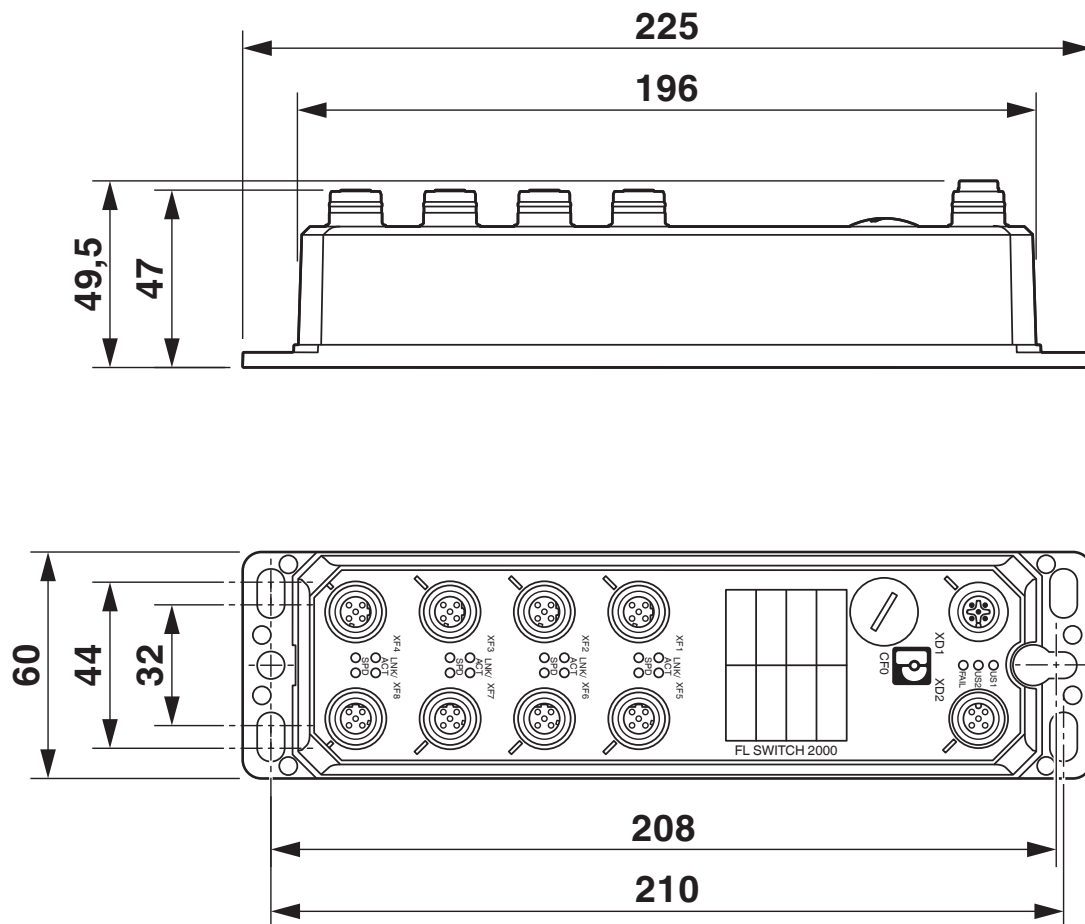


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Drawings

Dimensional drawing



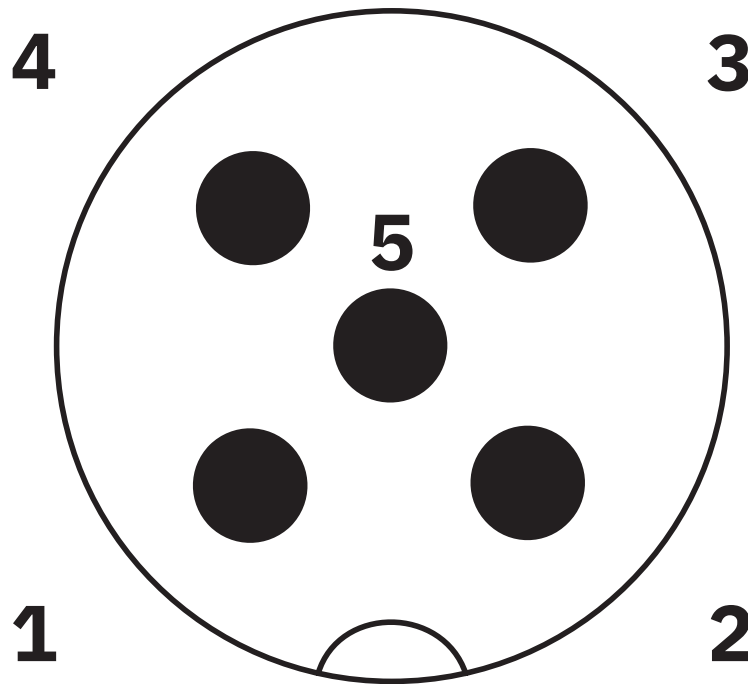
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Schematic diagram



Connection of the supply voltage

PIN 1 Us1

PIN 2 GND

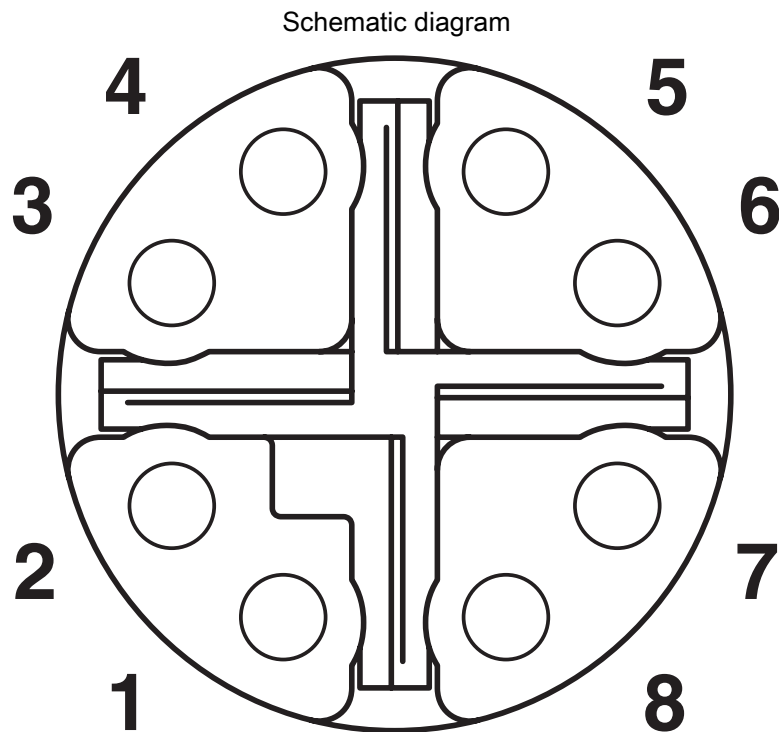
Pin 3 GND

Pin 4 Us2

Pin 5 functional ground

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Assignment of the LAN female connector

Pin 1 DB+
Pin 2 DB-
Pin 3 DA+
Pin 4 DA-
Pin 5 DC+
Pin 6 DC-
Pin 7 DD-
Pin 8 DD+

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Approvals

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EAC

Approval ID: RU D-DE.GB09.B.00312



cULus Listed

Approval ID: E238705



CC-Link IE Field

Approval ID: NRT-IF-00058



CC-Link IE Field

Approval ID: NRT-IT-00067

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Classifications

ECLASS

ECLASS-13.0	19170401
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ETIM

ETIM 9.0	EC000734
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UNSPSC

UNSPSC 21.0	43222600
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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-50
	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)
SCIP	a196de77-583f-4e57-a180-3b63bb2f12ed

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