FL SWITCH 2708 - Industrial Ethernet Switch

1106615

https://www.phoenixcontact.com/us/products/1106615

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CRA-READY



Managed Switch 2000 series, 8 M12 ports 10/100/1000 Mbps, degree of protection: IP65/IP66/IP 67, Ambient temperature (operation): -40 °C ... 70 °C, Supply voltage range: 9 V DC ... 57 V DC, PROFINET Conformance Class B, Extended temperature range, Development process certified in accordance with IEC 62443-4-1, Product certified in accordance with IEC 62443-4-2, The product is being prepared for compliance with the Cyber Resilience Act (CRA)

Your advantages

- Robust IP67 housing
- Easy panel mounting

ELEKTROGERÄTE RÜCKNAHME

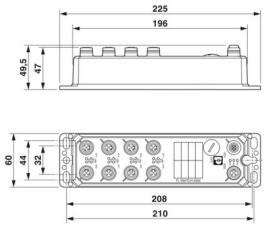
Commercial data

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)	1,192.9 g
Weight per piece (excluding packing)	1,100 g
Customs tariff number	85176200

Country of origin	DE

Technical data

Dimensions

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

Notes

Note on application	Support by phone or on-site (fee is charged)
Note on application	Only for industrial use
Note on application	As things stand now, we are preparing the product so that, as of December 11, 2027, it will comply with the requirements of the EU Cyber Resilience Act (CRA) based on the information currently available regarding the CRA.

Material specifications

Color (Housing)	nickel color
Housing material	Die-cast zinc

Mounting

Mounting type	Panel mounting

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%)
	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
	Product certified in accordance with IEC 62443-4-2
	The product is being prepared for compliance with the Cyber Resilience Act (CRA)
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)

Switch functions

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
PROFINET conformance class	Conformance Class B
PROFINET device function	PROFINET device
	Fast Startup
Status and diagnostic indicators	LEDs: US1, US2 (power supply), Fail, 2 LEDs per Ethernet port (Link/Activity and Speed)
Basic functions	Store-and-forward switch, complies with IEEE 802.3
Management functions	Web-based management (HTTP/HTTPS)
	Role-based user management (LDAP, RADIUS)
	SNMPv1/v2/v3
	Command Line Interface (Telnet, SSH)
Diagnostic functions	RMON History
	LLDP (Link Layer Discovery Protocol)
	SNMP-Traps
	N:1-Portmirroring
	ACD (Address Conflict Detection)
	SysLog
	CRC-Surveillance
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
Redundancy functions	MRP (Media Redundancy Protocol)
	RSTP (Rapid Spanning Tree Protocol)
	FRD (Fast Ring Detection)
	Large Tree Support
	LACP (Link Aggregation Control Protocol)
	PROFINET S2 system redundancy
Time synchronization	SNTP (Simple Network Time Protocol)
Additional functions	Jumbo frames (max. 9,600 bytes)
	Transmission of MMS and GOOSE (IEC 61850-8-1)
	Transmission of Modbus/TCP

Security functions

Port security	MAC-based, RADIUS (IEEE 802.1X), MAC Authentication Bypass

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

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65
	IP66
	IP67
	IP68

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 %
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

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
	EN 61000-6-3 (conducted emissions) Class B
Noise immunity	EN 61000-6-2

Noise emission

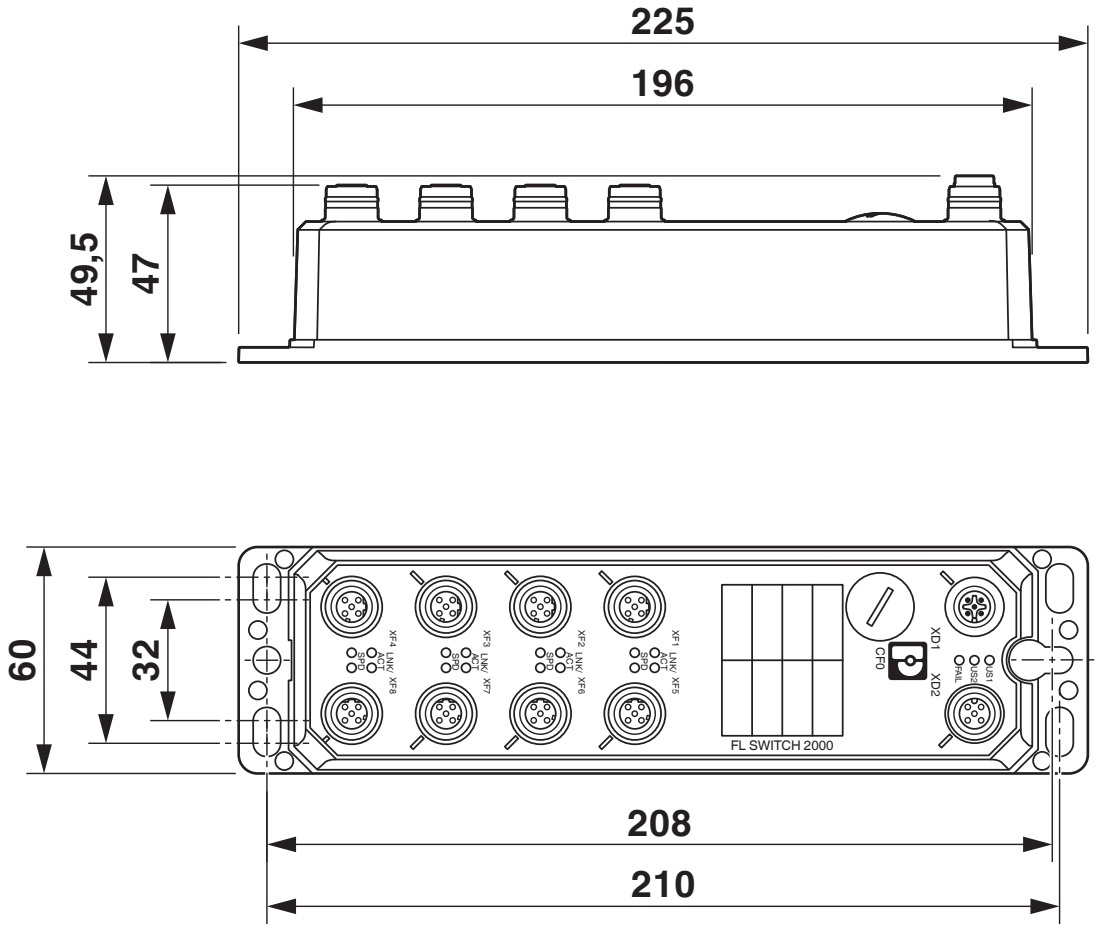
Standards/regulations	EN 61000-6-3

Signaling

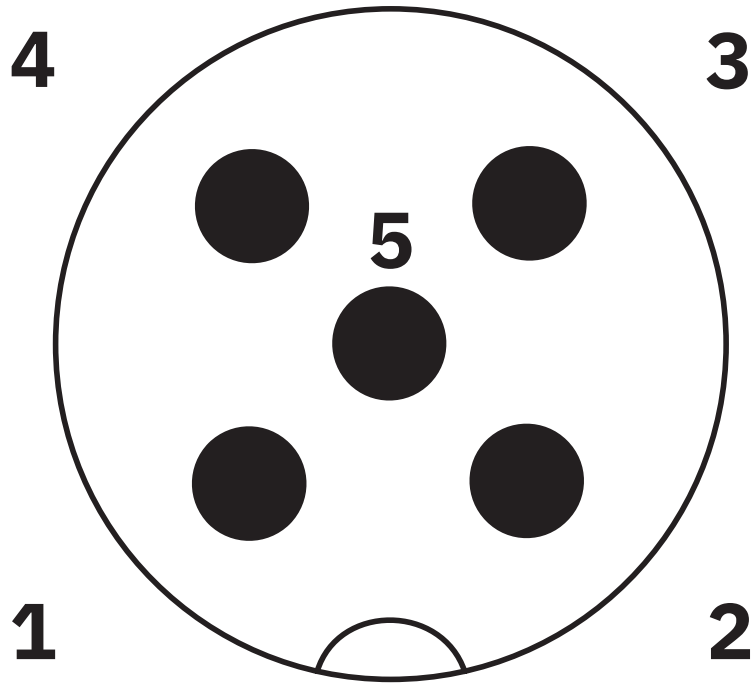
Status display	LEDs: US1, US2 (power supply), Fail, 2 LEDs per Ethernet port (Link/Activity and Speed)

Drawings

Dimensional drawing



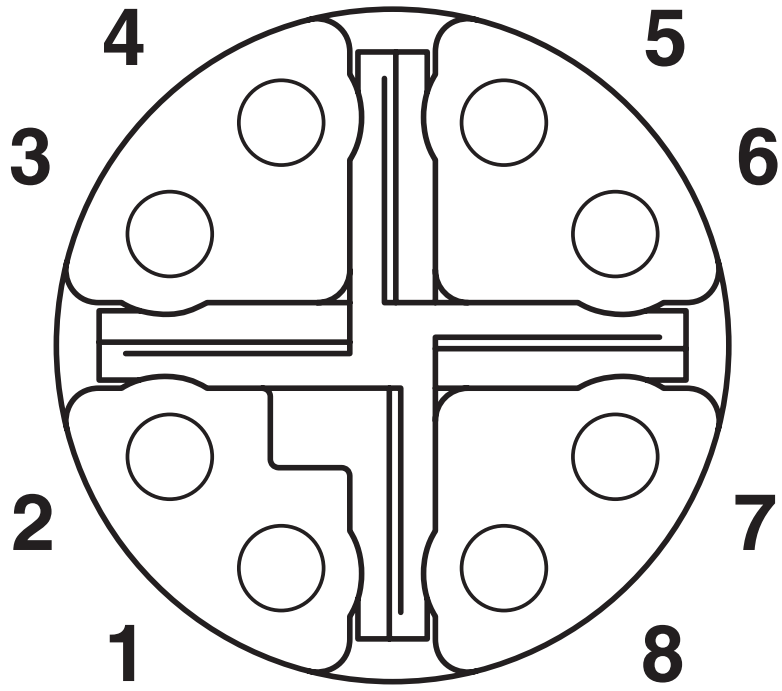
Schematic diagram



Connection of the supply voltage

PIN 1 Us1
PIN 2 GND
Pin 3 GND
Pin 4 Us2
Pin 5 functional ground

Schematic diagram



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+

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1106615

cULus Listed
Approval ID: E238705

CC-Link IE Field
Approval ID: NRT-IF-00058

CC-Link IE Field
Approval ID: NRT-IF-00058

Cybersecurity Certificate
Approval ID: 968 CSP 1043.00 25

cULus Listed
Approval ID: E238705

Cybersecurity Certificate
Approval ID: 968 CSP 1043.00 25

CC-Link IE Field
Approval ID: NRT-IT-00067

CC-Link IE Field
Approval ID: NRT-IT-00067

Classifications

ECLASS

ECLASS-13.0	19170401
ECLASS-15.0	19170401

ETIM

ETIM 10.0	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-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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