FL SWITCH 1608 - Industrial Ethernet Switch

1196227

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Unmanaged Switch 1000, 8 M12 ports 10/100 Mbps, degree of protection: IP65/IP66/IP67, Extended temperature range

Your advantages

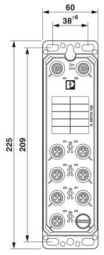
- QoS-prioritized (Quality of Service) messages
- Local diagnostic indicators with LEDs
- Enhanced traffic prioritization for automation protocols
- PROFINET PTCP filter for reliable communication on PROFINET networks
- PROFINET Conformance Class A for real-time data exchange
- Auto negotiation and autocrossing detection simplifies installation and setup

Commercial data

Item number	1196227
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN19
Product key	DNN114
GTIN	4063151253677
Weight per piece (including packing)	1,400 g
Weight per piece (excluding packing)	1,400 g
Customs tariff number	85176200
Country of origin	DE

Technical data

Dimensions

Dimensional drawing	
Width	60 mm
Height	226 mm
Depth	46 mm

Material specifications

Housing material	Zinc die-cast

Mounting

Mounting type	Wall mounting

Interfaces

Ethernet

Connection method	M12 connectors, D-coded
Note on the connection method	Auto negotiation and autocrossing
Transmission speed	10/100 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	Unmanaged Switch 1000
Type	Stand-Alone
MTTF	79.2 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%)
	845.5 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)
	610.2 Years (Telcordia standard, 25°C temperature, 21% operating cycle (5 days a week, 8 hours a day))
Special properties	Extended temperature range

Switch functions

Basic functions	Store-and-forward switch, complies with IEEE 802.3
MAC address table	4k
Status and diagnostic indicators	LEDs: US1, US2 (power supply), 2 LEDs per Ethernet port (Link/Activity and Speed)
Additional functions	100 BASE-TX/100BASE-FX (IEEE 802.3u)
	Quality of Service (QoS) prioritization (IEEE 802.1p)
	Energy-efficient Ethernet (IEEE 802.3az)
	10Base-T (IEEE 802.3)

Security functions

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

Electrical properties

Local diagnostics	US1/2 Supply voltage US1, US2 Green LED
	LINK Link status Green LED
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	143 mA (9 V DC)
Typical current consumption	58 mA

Connection data

Connection technology

Connection name	Power supply

Power supply

Connection method	M12 connector (A-coded)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65
	IP66
	IP67
Ambient temperature (operation)	-40 °C ... 75 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	10 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	10 % ... 95 % (non-condensing)
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

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 61000-6-2 EN 61000-6-4 (interference) Class A
	EN 61000-6-2 EN 61000-6-4 (conducted interference) Class A
Noise immunity	EN 61000-6-2
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Noise emission	EN 61000-6-4

System properties

Functionality

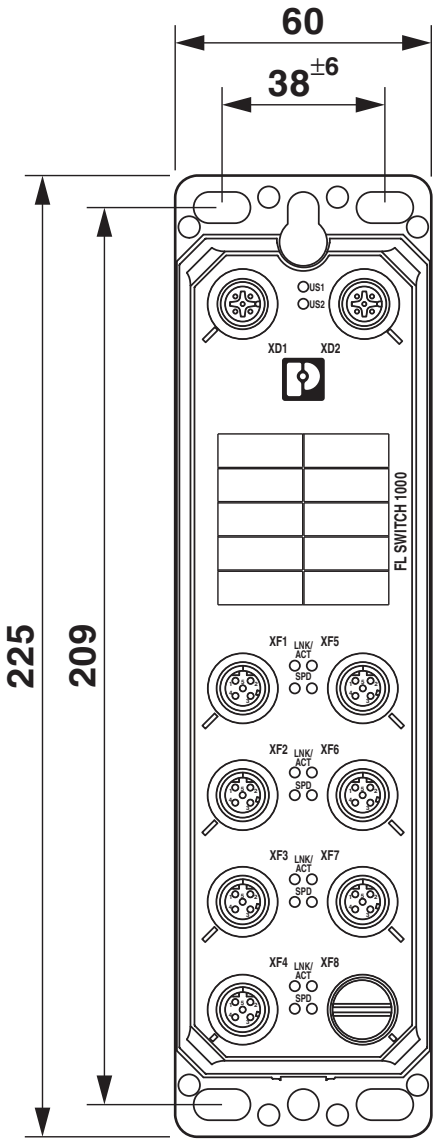
Basic functions	Store-and-forward switch, complies with IEEE 802.3

Signaling

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

Drawings

Dimensional drawing



Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1196227

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

cULus Listed
Approval ID: E238705

Classifications

ECLASS

ECLASS-11.0	19170402
ECLASS-12.0	19170402
ECLASS-13.0	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-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	9eb36802-e863-43cb-84db-945a150551c6

Accessories

NBC-M12MSD/ 2,0-93C/M12MSD - Network cable

1416200

https://www.phoenixcontact.com/us/products/1416200



Network cable, PROFINET CAT5 (100 Mbps), EtherCAT® CAT5 (100 Mbps), 4-position, PUR/FRNC halogen-free, green RAL 6018, shielded (Advanced Shielding Technology), Plug straight M12, coding: D / IP67, on Plug straight M12, coding: D / IP67, cable length: 2 m

NBC-M12MRD-M12MRD-PN/.../... - Network cable

1408624

https://www.phoenixcontact.com/us/products/1408624



Network cable, PROFINET CAT5 (100 Mbps), EtherCAT® CAT5 (100 Mbps), 4-position, shielded (Advanced Shielding Technology), Plug angled M12, coding: D / IP67, on Plug angled M12, coding: D / IP67, cable length: Free input (0.2 ... 40.0 m)

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