

# FL SWITCH 1008E - Industrial Ethernet Switch



2891065

<https://www.phoenixcontact.com/gb/products/2891065>

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Ethernet switch with eight RJ45 ports, meets IEC 61850-3 and IEEE 1613 standards. Automatic detection of data transmission speed of 10/100 Mbps (RJ45) with autocrossing function.

## Product description

Developed according to IEC 61850-3 (Ambient conditions)

## Your advantages

- Wide operating temperature range of -40 °C ... 75 °C
- QoS-prioritized (Quality of Service) messages
- Network structure according to IEC 61850
- IEEE 1613
- Alarm contact for power supply and link status diagnostics
- Local diagnostic indicators with LEDs
- Intended for use in power substations
- Auto negotiation and autocrossing detection simplifies installation and setup

## Commercial data

Item number	2891065
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	DNN115
Product key	DNN115
GTIN	4046356764339
Weight per piece (including packing)	875 g
Weight per piece (excluding packing)	660 g
Customs tariff number	85176200
Country of origin	TW

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## Technical data

### Dimensions

Width	54.4 mm
Height	146.4 mm
Depth	125 mm

### Material specifications

Housing material	Aluminum
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### Mounting

Mounting type	DIN rail mounting
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### 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
No. of channels	8 (RJ45 ports)
Data flow control/protocols	IEC 61850-3, IEEE 1613

### Product properties

Product type	Switch
Product family	Unmanaged Switch 1000
Type	Block design
MTTF	86.6 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%)

#### Insulation characteristics

Protection class	III (VDE 0106, IEC 60536)
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#### Switch functions

Basic functions	Unmanaged switch / autonegotiation, complies with IEEE 802.3, store and forward switching mode, includes QoS and alarm contact. Meets IEC 61850-3 and IEEE 1613 standards
Signal contact control voltage	24 V DC
Signal contact control current	100 mA
MAC address table	2k
Status and diagnostic indicators	LEDs: U <sub>S1</sub> , U <sub>S2</sub> (redundant voltage supply), link and activity per port
Additional functions	Autonegotiation

#### Security functions

Basic functions	Unmanaged switch / autonegotiation, complies with IEEE 802.3,
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## Electrical properties

Local diagnostics	US1, US2 Supply voltage Green LED
	LNK/ACT Link status/data transmission Green LED
	100 Data transmission speed Green LED
	Alarm Power failure at US1 or US2/Link failure
Maximum power dissipation for nominal condition	10.56 W
Transmission medium	Copper

## Supply

Supply voltage (DC)	24 V DC (redundant)
	48 V DC
Supply voltage range	12 V DC ... 57 V DC
Inrush current	9.84 A (0.2 ms)
Residual ripple	3.6 V <sub>pp</sub> (within the permitted voltage range)
Typical current consumption	440 mA (at U <sub>S</sub> = 24 V DC)

## Function

Signal contact control voltage	24 V DC
Signal contact control current	100 mA

## Connection data

### Power supply

Connection method	COMBICON plug-in screw terminal block
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	24 ... 14
Stripping length	7 mm

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 75 °C
Ambient temperature (storage/transport)	-45 °C ... 85 °C
Permissible humidity (operation)	5 % ... 95 % (non-condensing)
Air pressure (operation)	82 kPa ... 108 kPa (up to 1500 m above sea level)

## Standards and regulations

Standards/specifications	IEC 61850-3
	IEEE 1613

## EMC data

IEC 61000-6-2 IEC 61000-4-2 (ESD) Criterion B

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Conformance with EMC directives	IEC 61000-4-3 (immunity to radiated interference) Criterion A
	IEC 61000-4-4 (burst) Criterion A
	IEC 61000-4-5 (surge) Criterion B
	IEC 61000-4-6 (immunity to conducted interference) Criterion A
	IEC 61000-4-8 (immunity to magnetic fields) Criterion A
	IEC 61000-4-9 (immunity to pulsed magnetic field) Criterion B
	EN 55022 (emitted interference) Criterion B
Noise immunity	IEC 61850-3, IEEE 1613, EN 61000-6-2: 2005

## Noise emission

Standards/regulations	EN 61000-6-4
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## System properties

### Functionality

Basic functions	Unmanaged switch / autonegotiation, complies with IEEE 802.3, store and forward switching mode, includes QoS and alarm contact. Meets IEC 61850-3 and IEEE 1613 standards
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## Signaling

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

### 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-10
	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)
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