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Especialistas en Automatización

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Industrial Ethernet Switch - FL SWITCH 3012E-2SFX - 2891067

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Managed Ethernet switch meets IEC 61850-3 and IEEE 1613 standards. Provides 12 RJ45 ports at 10/100 Mbps and two SFP slots at 100 Mbps) with an operating temperature of -40°C ... +70°C.

Product Description

FL SWITCH 3000 managed industrial Ethernet switches combine extensive network performance and security features with complete IEEE redundancy (STP/RSTP/MST) and 15 ms recovery time extended ring redundancy. Unique web customization provides a simplified user interface for today's applications and scalable functionality for future needs. A comprehensive mix of fiber optic and copper port connections meets a wide range of applications.

Why buy this product

- Network structure according to IEC 61850
- IEEE 1613

Ethernet IEC 61850-3

Key Commercial Data

| | |
|--------------|---------------------|
| Packing unit | 1 STK |
| GTIN | 4 046356 773676 |

Technical data

Note

| | |
|-------------------------|---|
| Utilization restriction | EMC: class A product, see manufacturer's declaration in the download area |
|-------------------------|---|

Dimensions

| | |
|--------|--------|
| Width | 78 mm |
| Height | 144 mm |
| Depth | 125 mm |

Ambient conditions

| | |
|--|--|
| Degree of protection | IP20 |
| Ambient temperature (operation) | -40 °C ... 70 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |
| Permissible humidity (operation) | 5 % ... 95 % (non-condensing) |
| Permissible humidity (storage/transport) | 5 % ... 95 % (non-condensing) |
| Air pressure (operation) | 57 kPa ... 108 kPa (up to 4850 m above mean sea level) |

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Ambient conditions

| | |
|----------------------------------|--|
| Air pressure (storage/transport) | 57 kPa ... 108 kPa (up to 4850 m above mean sea level) |
|----------------------------------|--|

Interfaces

| | |
|---------------------------|---------------------------------------|
| Interface 1 | Ethernet (RJ45) |
| No. of ports | 12 (RJ45 ports) |
| Connection method | RJ45 |
| Note on connection method | Auto negotiation and autocrossing |
| Transmission physics | Ethernet in RJ45 twisted pair |
| Transmission speed | 10/100 MBit/s (with auto negotiation) |
| Transmission length | 100 m |
| Interface 2 | Fiber optic interface |
| No. of ports | 2 (SFP ports) |
| Connection method | SFP ports |
| Transmission physics | Depending on the SFP module |
| Transmission speed | 100 MBit/s (full duplex) |

Function

| | |
|----------------------------------|--|
| Basic functions | Store and forward switch, Extended Ring and IEEE redundancy, Multicast control, IGMP snooping, trunking, Port and Tagging VLANs, Port and IEEE 802.1x security, SNMP V3 and Https security, SNTP, web customization, user accounts |
| Status and diagnostic indicators | LEDs: U _{S1} , U _{S2} (redundant voltage supply), link and activity per port |
| Signal contact control voltage | 250 V AC |
| Signal contact control current | 1 A |

Network expansion parameters

| | |
|---|--|
| Cascading depth | Network, linear, and star structure: any |
| Maximum conductor length (twisted pair) | 100 m |

Supply voltage

| | |
|-----------------------------|--|
| Supply voltage | 24 V DC (redundant) |
| Residual ripple | 3.6 V _{PP} (within the permitted voltage range) |
| Supply voltage range | 12 V DC ... 48 V DC |
| Typical current consumption | 312 mA (at U _S = 24 V DC) |

General

| | |
|------------------|----------------------------|
| Mounting type | NS 35 (IEC 60715) DIN rail |
| Type AX | Block design |
| Net weight | 1626.1 g |
| Housing material | Aluminum |

Connection data

| | |
|------------------------------------|---------------------------------------|
| Connection method | Pluggable COMBICON screw connections, |
| Conductor cross section solid min. | 0.2 mm ² |
| Conductor cross section solid max. | 2.5 mm ² |

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Connection data

| | |
|---------------------------------------|---------------------|
| Conductor cross section flexible min. | 0.2 mm ² |
| Conductor cross section flexible max. | 2.5 mm ² |
| Conductor cross section AWG min. | 24 |
| Conductor cross section AWG max. | 12 |
| Stripping length | 7 mm |

Standards and Regulations

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|----------------|--|
| Test section | Supply voltage/functional earth ground 500 V 1 min. |
| Type of test | Shock in acc. with EN 60068-2-27/IEC 60068-2-27 |
| Test result | 30g, 11 ms half-sine shock pulse |
| Type of test | Vibration resistance in acc. with EN 60068-2-6/IEC 60068-2-6 |
| Test result | 5g, 150 Hz, Criterion 3 |
| Type of test | Free fall in acc. with IEC 60068-2-32 |
| Test result | 1 m |
| Noise emission | EN 61000-6-4 |
| Noise immunity | IEC 61850-3, IEEE 1613, EN 61000-6-2: 2005 |

Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.0 | 27250501 |
| eCl@ss 4.1 | 27250501 |
| eCl@ss 5.0 | 19030117 |
| eCl@ss 5.1 | 19030117 |
| eCl@ss 6.0 | 19170106 |
| eCl@ss 7.0 | 19170106 |
| eCl@ss 8.0 | 19170106 |

ETIM

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|----------|----------|
| ETIM 3.0 | EC000734 |
| ETIM 4.0 | EC000734 |
| ETIM 5.0 | EC000734 |

UNSPSC

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|---------------|----------|
| UNSPSC 6.01 | 43172901 |
| UNSPSC 7.0901 | 43201404 |
| UNSPSC 11 | 43172015 |
| UNSPSC 12.01 | 43201410 |
| UNSPSC 13.2 | 43201410 |

Approvals

Approvals

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Approvals

Approvals

UL Listed / cUL Listed

Ex Approvals

Approvals submitted

Approval details

| | |
|----------------------------|-------|
| UL Listed | |
| | |
| mm ² /AWG/kcmil | 30-14 |

| | |
|----------------------------|-------|
| cUL Listed | |
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| mm ² /AWG/kcmil | 30-14 |

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|---|---------|-------------------------|----------------------------|
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