

## Industrial Ethernet Switch - FL SWITCH 4008T-2SFP - 2891062

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Managed Ethernet switch with eight RJ45 ports at 10/100 Mbps and two SFP ports at 1000 Mbps. Wide operating temperature of -40°C ... +75°C.

### Product Description

FL SWITCH 4000 managed industrial Ethernet switches combine Gigabit interfaces with extensive network performance for the most demanding applications. Security features with complete IEEE redundancy (STP/RSTP/MST) and 15 ms recovery time extended ring redundancy optimize network uptime. Unique web customization provides a simplified user interface for today's applications and scalable functionality for future needs. A comprehensive mix of 10/100 Mbps and Gigabit fiber optic connections combine performance with installed cost savings.

### Why buy this product

- ✓ Unique cleanup function hides unused configuration pages, reducing complexity, maintenance and startup times
- ✓ Secure web-based and SNMP-based management
- ✓ Extensive web diagnostics with configurable LED and remote alarm contacts
- ✓ Eight 10/100 Mbps RJ45 ports for device connections and two SFP-based fiber optic LC interfaces for network trunk lines.
- ✓ -40 to 75°C ambient temperature

## Ethernet

### Key Commercial Data

|              |                                                                                                         |
|--------------|---------------------------------------------------------------------------------------------------------|
| Packing unit | 1 STK                                                                                                   |
| GTIN         | <br>4 046356 764308 |
| GTIN         | 4046356764308                                                                                           |

### Technical data

#### Note

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

#### Dimensions

|        |          |
|--------|----------|
| Width  | 54.4 mm  |
| Height | 146.4 mm |
| Depth  | 125 mm   |

#### Ambient conditions

|                                 |                  |
|---------------------------------|------------------|
| Degree of protection            | IP20             |
| Ambient temperature (operation) | -40 °C ... 75 °C |

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### Ambient conditions

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

### Interfaces

|                               |                                                      |
|-------------------------------|------------------------------------------------------|
| Interface 1                   | Ethernet (RJ45)                                      |
| No. of ports                  | 8 (RJ45 ports)                                       |
| Connection method             | RJ45                                                 |
| Note on the connection method | Auto negotiation and autocrossing                    |
| Transmission physics          | Ethernet in RJ45 twisted pair                        |
| Transmission speed            | 10/100 Mbps                                          |
| Transmission length           | 100 m                                                |
| Interface 2                   | Fiber optic interface                                |
| No. of ports                  | 2 (SFP ports)                                        |
| Connection method             | SFP ports                                            |
| Transmission physics          | multi-mode fiberglass                                |
| Transmission speed            | 1000 Mbps (full duplex)                              |
| Transmission length           | up to 80 km (Depending on the fiber/SFP module used) |

### Function

|                                  |                                                                                                |
|----------------------------------|------------------------------------------------------------------------------------------------|
| Basic functions                  | Managed switch                                                                                 |
| Status and diagnostic indicators | LEDs: U <sub>S1</sub> , U <sub>S2</sub> (redundant voltage supply), link and activity per port |

### 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 (Hazardous locations)                            |
| Residual ripple             | 3.6 V <sub>PP</sub> (within the permitted voltage range) |
| Supply voltage range        | 12 V DC ... 48 V DC (Ordinary locations)                 |
| Typical current consumption | 278 mA (at U <sub>S</sub> = 24 V DC)                     |
| Inrush surge current        | 7.8 mA (200 µs)                                          |

### General

|                  |                            |
|------------------|----------------------------|
| Mounting type    | NS 35 (IEC 60715) DIN rail |
| Type AX          | Block design               |
| Net weight       | 1280 g                     |
| Housing material | Aluminum                   |

### Connection data

|                   |                                      |
|-------------------|--------------------------------------|
| Connection method | Pluggable COMBICON screw connections |
|-------------------|--------------------------------------|

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### Connection data

|                                       |                     |
|---------------------------------------|---------------------|
| Conductor cross section solid min.    | 0.2 mm <sup>2</sup> |
| Conductor cross section solid max.    | 2.5 mm <sup>2</sup> |
| Conductor cross section flexible min. | 0.2 mm <sup>2</sup> |
| Conductor cross section flexible max. | 2.5 mm <sup>2</sup> |
| Conductor cross section AWG min.      | 24                  |
| Conductor cross section AWG max.      | 12                  |
| Stripping length                      | 7 mm                |

### Standards and Regulations

|                                 |                                                              |
|---------------------------------|--------------------------------------------------------------|
| Developed in acc. with standard | IEC 61000-6-2                                                |
| Test standard                   | IEC 61000-4-2 (ESD)                                          |
| Test result                     | Criterion B                                                  |
| Test standard                   | IEC 61000-4-3 (immunity to radiated interference)            |
| Test result                     | Criterion A                                                  |
| Test standard                   | IEC 61000-4-4 (burst)                                        |
| Test result                     | Criterion A                                                  |
| Test standard                   | IEC 61000-4-5 (surge)                                        |
| Test result                     | Criterion B                                                  |
| Test standard                   | IEC 61000-4-6 (immunity to conducted interference)           |
| Test result                     | Criterion A                                                  |
| Test standard                   | IEC 61000-4-8 (immunity to magnetic fields)                  |
| Test result                     | Criterion A                                                  |
| Test standard                   | EN 55022 (emitted interference)                              |
| Test result                     | Class A                                                      |
| 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                  | EN 61000-6-2:2005                                            |
| Conformance                     | CE-compliant                                                 |
| ATEX                            | # II 3 G Ex nA nC IIC T4 Gc                                  |
| IECEX                           | Ex nA nC IIC T4 Gc                                           |
| UL, USA/Canada                  | Class I, Div. 2, Groups A, B, C, D                           |

### Environmental Product Compliance

|            |                                                                                                     |
|------------|-----------------------------------------------------------------------------------------------------|
| China RoHS | Environmentally Friendly Use Period = 50                                                            |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

## Industrial Ethernet Switch - FL SWITCH 4008T-2SFP - 2891062

### Approvals

#### Approvals

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#### Approvals

UL Listed / cUL Listed / EAC / EAC / cULus Listed

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#### Ex Approvals

UL Listed / cUL Listed / IECEx / ATEX / cULus Listed

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#### Approval details

UL Listed



<http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm>

FILE E 140324

cUL Listed



<http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm>

FILE E 140324

EAC



EAC-Zulassung

EAC



RU \*-  
DE.A\*30.B.01735

cULus Listed



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