

## Industrial Ethernet Switch - FL SWITCH 2008 - 2702324

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Managed Switch 2000, 8 RJ45 ports 10/100 Mbps, degree of protection: IP20

### Why buy this product

- Suitable for PROFINET and EtherNet/IP™ networks
- Unmanaged Mode
- 
- Configuration memory
- RSTP
- MRP client
- DHCP client, DHCP server (port-based)
- VLANs
- Web-based management, SNMP



### Key Commercial Data

|                                      |   |
|--------------------------------------|---|
| Packing unit                         | 1 STK   |
| GTIN                                 | <br>4 055626 128917 |
| GTIN                                 | 4055626128917   |
| Weight per Piece (excluding packing) | 360.000 g   |
| Custom tariff number                 | 85176200  |
| Country of origin                    | Germany   |

### Technical data

Note

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## Technical data

### Note

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

### Dimensions

|        |        |
|--------|--------|
| Width  | 45 mm  |
| Height | 130 mm |
| Depth  | 115 mm |

### Ambient conditions

|  |   |
|--|---|
| Degree of protection                     | IP20  |
| Ambient temperature (operation)          | 0 °C ... 60 °C                              |
| Ambient temperature (storage/transport)  | -40 °C ... 85 °C                            |
| Permissible humidity (operation)         | 10 % ... 95 % (non-condensing)              |
| Permissible humidity (storage/transport) | 10 % ... 95 % (non-condensing)              |
| Air pressure (operation)                 | 86 kPa ... 108 kPa (1500 m above sea level) |
| Air pressure (storage/transport)         | 86 kPa ... 108 kPa (1500 m above 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          | Copper                            |
| Transmission speed            | 10/100 Mbps                       |
| Transmission length           | 100 m (per segment)               |
| Signal LEDs                   | Data receive, link status         |

### Function

|                      |  |
|----------------------|--|
| Basic functions      | Store-and-forward switch, complies with IEEE 802.3 |
| Management           | Web-based management (HTTP/HTTPS)                  |
|                      | 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)                   |
| Filter functions     | Quality of Service (8 priority classes)            |
|                      | Port-Priorisierung                                 |
|                      | VLAN (up to 8 VLANs)                               |

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### Function

|                                  |   |
|----------------------------------|---|
|                                  | IGMP Snooping (32 groups)   |
|                                  | IGMP Query  |
|                                  | Auto-Query-Port   |
|                                  | Extended Multicast Filtering  |
| MAC address table                | 8k  |
| Redundancy                       | MRP (Media Redundancy Protocol)   |
|                                  | RSTP (Rapid Spanning Tree Protocol)   |
| IP parameterization              | DHCP-Client   |
|                                  | DHCP server (port based)  |
|                                  | BootP   |
| PROFINET conformance class       | Conformance-Class A   |
| Status and diagnostic indicators | LEDs: US (power supply), 2 LEDs per Ethernet port (Link/Activity and Speed) |

### 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 (single)   |
| Residual ripple             | 3.6 V <sub>pp</sub> (within the permitted voltage range) |
| Supply voltage range        | 18 V DC ... 32 V DC                                      |
| Typical current consumption | 180 mA (at U <sub>S</sub> = 24 V DC)                     |
| Max. current consumption    | 0.35 A ()  |
| Current consumption         | 180 mA   |

### General

|                  |  |
|------------------|--|
| Mounting type    | DIN rail   |
| Type AX          | Book type  |
| Net weight       | 323 g  |
| Housing material | Polycarbonate fiber reinforced   |
| Note             | Support by phone or on-site (fee is charged)   |
| MTTF             | 507.8 Years (SN 29500 standard, temperature 25 °C, operating cycle 21 % (5 days a week, 8 hours a day))      |
|                  | 246.55 Years (SN 29500 standard, temperature 40 °C, operating cycle 34.25 % (5 days a week, 12 hours a day)) |
|                  | 56.66 Years (SN 29500 standard, temperature 55 °C, operating cycle 100 % (7 days a week, 24 hours a day))    |

### Connection data

|                   |                  |
|-------------------|------------------|
| Connection method | Screw connection |
|-------------------|------------------|

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### Connection data

|                                       |                      |
|---------------------------------------|----------------------|
| Conductor cross section solid min.    | 0.08 mm <sup>2</sup> |
| Conductor cross section solid max.    | 1.5 mm <sup>2</sup>  |
| Conductor cross section flexible min. | 0.08 mm <sup>2</sup> |
| Conductor cross section flexible max. | 1.5 mm <sup>2</sup>  |
| Conductor cross section AWG min.      | 28                   |
| Conductor cross section AWG max.      | 16                   |
| Stripping length                      | 7 mm                 |

### Standards and Regulations

|   |  |
|---|--|
| Electromagnetic compatibility                                     | Conformance with EMC Directive 2014/30/EU          |
| Developed in acc. with standard                                   | IEC 61000-6.2                                      |
| Test standard   | IEC 61000-4-2 (ESD)                                |
| Test result   | Criterion B  |
| Test standard   | EN 61000-4-3 (electromagnetic fields)              |
| 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  |
| Noise emission  | EN 61000-6-4                                       |
| Noise immunity  | EN 61000-6-2                                       |
| Vibration (storage/transport)                                     | 2g, criterion 1 according to IEC 60068-2-6         |
| Free from substances that could impair the application of coating | Yes  |
| Vibration (operation)   | 2g, according to IEC 60068-2-6                     |

### Environmental Product Compliance

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

## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27250501 |
| eCl@ss 4.1 | 27250501 |
| eCl@ss 5.0 | 27250501 |
| eCl@ss 5.1 | 27250501 |

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## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 6.0 | 27250501 |
| eCl@ss 7.0 | 27250501 |
| eCl@ss 8.0 | 19170106 |
| eCl@ss 9.0 | 19170106 |

### ETIM

|          |          |
|----------|----------|
| ETIM 3.0 | EC000734 |
| ETIM 4.0 | EC000734 |
| ETIM 5.0 | EC000734 |
| ETIM 6.0 | EC000734 |

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 43172015 |
| UNSPSC 7.0901 | 43201404 |
| UNSPSC 11     | 43172015 |
| UNSPSC 12.01  | 43201410 |
| UNSPSC 13.2   | 43222612 |

## Approvals

### Approvals

#### Approvals

UL Listed / cUL Listed / EAC / cULus Listed

#### Ex Approvals

### Approval details

|           |   |   |               |
|-----------|---|---|---------------|
| UL Listed |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 238705 |
|-----------|---|---|---------------|

|            |   |   |               |
|------------|---|---|---------------|
| cUL Listed |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 238705 |
|------------|---|---|---------------|

## Industrial Ethernet Switch - FL SWITCH 2008 - 2702324

### Approvals



### Accessories

#### Accessories

#### Drivers and interfaces

Software - FL SNMP OPC SERVER V3 - 2701139



SNMP-OPC server, German and English, for monitoring and configuration of SNMP-capable equipment in HMI and SCADA systems

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#### End block

End clamp - E/NS 35 N - 0800886



End clamp, width: 9.5 mm, color: gray

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#### Mounting rail adapter

DIN rail adapter - FL DIN RA - 2891053

The FL DIN RA is installed in a standard, 19-inch rack (EIA-310-D, IEC 60297-3-100) to allow DIN rail mounted equipment to be rack mounted.



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#### Network management software

## Industrial Ethernet Switch - FL SWITCH 2008 - 2702324

### Accessories

Software - FL NETWORK MANAGER BASIC - 2702889



FL Network Manager, SNMP-based configuration and firmware update software, for easy startup of Managed Switches

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Software - FL VIEW 32 LITE - 2701744



FL VIEW, SNMP-based software in English, for the detection and display of Ethernet networks. 32 nodes (network devices) can be monitored in one Class C subnetwork with this version.

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### Parameterization memory

Memory - SD FLASH 512MB - 2988146



Program and configuration memory, plug-in, 512 Mbyte.

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Program / configuration memory - SD FLASH 2GB - 2988162



Program and configuration memory

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### Patch cable

Patch cable - FL CAT6 PATCH 1,0 - 2891385



Patch cable, CAT6, pre-assembled, 1.0 m

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### Accessories

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#### PCB plug

Printed-circuit board connector - FK-MCP 1,5/ 5-ST-3,81GY35BD1-5 - 1015782



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#### Protective cap

Dust protection - FL RJ45 PROTECT CAP - 2832991



Dust protection caps for RJ45 socket