

# Industrial Ethernet Switch - FL SWITCH SFNT 8TX - 2891005

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Wide-temperature Ethernet switch, 8 TP RJ45 ports, automatic detection of data transmission speed of 10/100 Mbps (RJ45), autocrossing function, reads QoS priority messages, accepts security frames

## Why buy this product

- ✓ Auto negotiation and autocrossing detection simplifies installation and setup
- ✓ Alarm contact for power supply and link status diagnostics
- ✓ Local diagnostic indicators with LEDs
- ✓ The switch also offers cable locking and port blocking
- ✓ QoS-prioritized (Quality of Service) messages
- ✓ Wide operating temperature range (-40°C ... +75°C)
- ✓ RJ45 ports support a transmission speed of 10/100 Mbps; fiber optic ports support 100 Mbps



**Ethernet**

## Key commercial data

|                                      |                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit                         | 1 pc                                                                                                    |
| GTIN                                 | <br>4 046356 457200 |
| Weight per Piece (excluding packing) | 633.9 g                                                                                                 |
| Custom tariff number                 | 85176200                                                                                                |
| Country of origin                    | Taiwan                                                                                                  |

## Technical data

### Dimensions

|        |        |
|--------|--------|
| Width  | 50 mm  |
| Height | 130 mm |
| Depth  | 100 mm |

### Ambient conditions

|                                         |                               |
|-----------------------------------------|-------------------------------|
| Degree of protection                    | IP20                          |
| Ambient temperature (operation)         | -40 °C ... 75 °C              |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C              |
| Permissible humidity (operation)        | 5 % ... 95 % (non-condensing) |

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## Technical data

### Ambient conditions

|                                          |                                                        |
|------------------------------------------|--------------------------------------------------------|
| Permissible humidity (storage/transport) | 5 % ... 95 % (non-condensing)                          |
| Air pressure (operation)                 | 62 kPa ... 108 kPa (up to 4160 m above mean sea level) |
| Air pressure (storage/transport)         | 62 kPa ... 108 kPa (up to 4160 m above mean sea level) |
| Noise immunity                           | EN 61000-6-2                                           |

### Interfaces

|                           |                                   |
|---------------------------|-----------------------------------|
| Interface 1               | Ethernet (RJ45)                   |
| No. of ports              | 8 (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                     |

### Function

|                                  |                                                                                                                                |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Basic functions                  | Unmanaged switch / autonegotiation, complies with IEEE 802.3, store and forward switching mode, includes QoS and alarm contact |
| Status and diagnostic indicators | LEDs: U <sub>S1</sub> , U <sub>S2</sub> (redundant voltage supply), link and activity per port, alarm (power and link down)    |

### 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 <sub>PP</sub> (within the permitted voltage range) |
| Supply voltage range        | 9 V DC ... 32 V DC                                       |
| Typical current consumption | 155 mA (@24 V DC)                                        |
| Max. current consumption    | 490 mA (@9 V DC)                                         |

### General

|                  |              |
|------------------|--------------|
| Mounting type    | DIN rail     |
| Type AX          | Block design |
| Weight           | 460 g        |
| Housing material | Aluminum     |
| Noise emission   | EN 61000-6-4 |

## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27250501 |
| eCl@ss 4.1 | 27250501 |
| eCl@ss 5.0 | 19030117 |
| eCl@ss 5.1 | 19030117 |

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## Classifications

### eCl@ss

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

### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC000734 |
| ETIM 3.0 | EC000734 |
| ETIM 4.0 | EC000734 |
| ETIM 5.0 | EC000734 |

### UNSPSC

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

## Approvals

### Approvals

#### Approvals

LR / GL / BV / DNV / ABS / NK / GL-SW / BSH / UL Listed / cUL Listed / GL / cULus Listed

#### Ex Approvals

UL Listed / cUL Listed / cULus Listed

#### Approvals submitted

### Approval details

LR

GL

BV

DNV

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### Approvals

ABS

NK

GL-SW

BSH

UL Listed 

cUL Listed 

GL

cULus Listed 

### Accessories

#### Accessories

#### Assembly adapter

Mounting plate - FL PA SFNT 5-8 - 2891012



Mounting plate for SFNT switches

#### End block

End clamp - E/NS 35 N - 0800886



End clamp, width: 9.5 mm, color: gray

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### Accessories

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#### Patch cable

Patch cable - FL CAT5 PATCH 0,3 - 2832250



Patch cable, CAT5, assembled, 0.3 m

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Patch cable - FL CAT5 PATCH 0,5 - 2832263



Patch cable, CAT5, assembled, 0.5 m

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Patch cable - FL CAT5 PATCH 1,0 - 2832276



Patch cable, CAT5, assembled, 1.0 m

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Patch cable - FL CAT5 PATCH 1,5 - 2832221



Patch cable, CAT5, assembled, 1.5 m

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Patch cable - FL CAT5 PATCH 2,0 - 2832289



Patch cable, CAT5, assembled, 2.0 m

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## Industrial Ethernet Switch - FL SWITCH SFNT 8TX - 2891005

### Accessories

Patch cable - FL CAT5 PATCH 3,0 - 2832292



Patch cable, CAT5, assembled, 3.0 m

Patch cable - FL CAT5 PATCH 5,0 - 2832580



Patch cable, CAT5, assembled, 5.0 m

Patch cable - FL CAT5 PATCH 7,5 - 2832616



Patch cable, CAT5, assembled, 7.5 m

Patch cable - FL CAT5 PATCH 10,0 - 2832629



Patch cable, CAT5, assembled, 10.0 m

Security element - FL SEC PAC 4TX - 2832865



Layer1 security elements for four RJ45 network connections for use with patch boxes and panels

Protective cap

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### Accessories

Dust protection - FL RJ45 PROTECT CAP - 2832991



Dust protection caps for RJ45 socket