

# Smart managed compact switch - FL SWITCH SMCS 8GT - 2891123

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Ethernet Smart Managed Compact Switch with eight 10/100/1000 Mbps RJ45 ports

## Product description

### Installation notes

The device is designed for installation in zone 2.

Installation, operation, and servicing may only be carried out by qualified personnel.

Follow the installation instructions described in the operating instructions.

When installing and operating the device, the applicable safety directives (including national safety directives), accident prevention regulations, as well as general technical regulations, must be observed. The safety-relevant data can be found in the package slip.

Access to the circuits within the device is not permitted. Do not repair the device yourself, but replace it with an equivalent device.

Repairs may be carried out only by the manufacturer.

The IP20 protection (IEC 60529/EN60529) of the device is intended for use in a clean and dry environment. The device must not be subject to mechanical strain and/or thermal loads, which exceed the limits described. The device is not designed for use in environments with danger of dust explosions.

The DIN rail must be connected to protective earth ground.

### Installation in zone 2

Observe the specified conditions for use in potentially explosive areas! At the time of installation, use an approved housing (minimum protection IP54), which meets the requirements of EN 60079-15. Observe the requirements of the EN 60079-14.

The snapping of the switches and the connection and disconnecting lines are permissible only if they are not live.

The unintentional disconnection from the RJ45 plug is prevented by appropriate measures, for example with a FL PATCH GUARD or the FL PATCH SAFE CLIP.

In zone 2, only connect devices to the supply and signal circuits that are suitable for operation in potentially explosive areas of zone 2 and the conditions at the installation location.

The device should be switched off and immediately removed from the Ex area if it is damaged, or has been overloaded, inappropriately stored or has malfunctions.

## Product Features

- VLANs
- MRP (client and master)
- SNMP
- RSTP



Ethernet



## Key commercial data

Packing unit	0
Minimum order quantity	1
Catalog page	Page 98 (AX-2011)

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GTIN	 4 046356 149679
Custom tariff number	85176200
Country of origin	GERMANY

## Technical data

### Interfaces

Interface 1	Ethernet (RJ45)
No. of ports	8 (RJ45 ports)
Connection method	RJ45
Note on connection method	Auto negotiation and autocrossing
Transmission physics	Copper
Transmission speed	10/100/1000 MBit/s
Transmission length	100 m (per segment)
Signal LEDs	Supply voltage, data transmission, error, link, activity
Interface 5	Serial (V.24 (RS-232))
Connection method	V.24 (RS-232-C), 6-pos. MINI-DIN female connector (PS/2)

### Function

Basic functions	Store-and-forward switch complies with IEEE 802.3 2 priority classes as per IEEE 802.1 P TCP/IP protocol, BootP-capable, port-mirroring, integrated web server function, multicast filtering, IGMP snooping, VLAN, Rapid Spanning Tree (RSTP), PROFINET IO Device, media redundancy protocol (MRP).
Management	Web based management, SNMP or over V.24 (RS-232)
Supported browsers	Internet Explorer 5.5 or higher
Redundancy	Spanning Tree 802.1d, Rapid Spanning Tree 802.1w, Fast Ring Detection, Media Redundancy Protocol (MRP) as per IEC 62439
Status and diagnostic indicators	Per Ethernet 2 status LEDs: LINK and status activity with switch-over, 100, full duplex, supply voltage $U_{s1}$ and $U_{s2}$ (redundant supply voltage) and FAIL

### 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
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	600 mA (at $U_s = 24$ V DC)

### General data

Width	128 mm
Height	110 mm
Depth	69 mm

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## Technical data

### General data

Mounting type	DIN rail
Type AX	Block design
Weight	650 g
Degree of protection	IP20
Ambient temperature (operation)	0 °C ... 55 °C (no condensation)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	5 % ... 95 % (no condensation)
Permissible humidity (storage/transport)	5 % ... 95 % (no condensation)
Air pressure (operation)	86 kPa ... 108 kPa (2000 m above sea level)
Air pressure (storage/transport)	66 kPa ... 108 kPa (3500 m above sea level)
Noise emission	EN 61000-6-3 +A11
Noise immunity	EN 61000-6-2:2005

## Classifications

### ETIM

ETIM 2.0	EC000734
ETIM 3.0	EC000734
ETIM 4.0	EC000734
ETIM 5.0	EC000734

### UNSPSC

UNSPSC 11	43172015
UNSPSC 12.01	43201410
UNSPSC 13.2	43201410
UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404

### eCl@ss

eCl@ss 4.0	27250501
eCl@ss 4.1	27250501
eCl@ss 5.0	27250501
eCl@ss 5.1	27250501
eCl@ss 6.0	19170106
eCl@ss 7.0	19170106

## Approvals

### Approvals

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## Approvals

Approvals

UL Recognized / cUL Recognized / GOST / LR / GL / BV / DNV / ABS / GL-SW / cULus Recognized / GL

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Ex Approvals


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Approvals submitted

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## Approval details

UL Recognized 

cUL Recognized 

GOST 

LR

GL

BV

DNV

ABS

GL-SW

cULus Recognized 

GL

## Smart managed compact switch - FL SWITCH SMCS 8GT - 2891123

### Accessories

#### Accessories

#### Cable/conductor

Connecting cable - PRG CAB MINI DIN - 2730611



Connecting cable, for connecting the controller to a PC (RS-232) for PC Worx, 3 m in length

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Patch cable - FL CAT6 PATCH 0,3 - 2891181



Patch cable, CAT6, pre-assembled, 0.3 m

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Patch cable - FL CAT6 PATCH 0,5 - 2891288



Patch cable, CAT6, pre-assembled, 0.5 m

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Patch cable - FL CAT6 PATCH 1,0 - 2891385



Patch cable, CAT6, pre-assembled, 1.0 m

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Patch cable - FL CAT6 PATCH 1,5 - 2891482



Patch cable, CAT6, pre-assembled, 1.5 m

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## Smart managed compact switch - FL SWITCH SMCS 8GT - 2891123

### Accessories

Patch cable - FL CAT6 PATCH 2,0 - 2891589



Patch cable, CAT6, pre-assembled, 2.0 m

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Patch cable - FL CAT6 PATCH 3,0 - 2891686



Patch cable, CAT6, pre-assembled, 3.0 m

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Patch cable - FL CAT6 PATCH 5,0 - 2891783



Patch cable, CAT6, pre-assembled, 5.0 m

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Patch cable - FL CAT6 PATCH 7,5 - 2891880



Patch cable, CAT6, pre-assembled, 7.5 m

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Patch cable - FL CAT6 PATCH 10 - 2891877



Patch cable, CAT6, pre-assembled, 10 m

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## Accessories

Patch cable - FL CAT6 PATCH 12,5 - 2891369



Patch cable, CAT6, pre-assembled, 12.5 m

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Patch cable - FL CAT6 PATCH 15,0 - 2891372



Patch cable, CAT6, pre-assembled, 15.0 m

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Patch cable - FL CAT6 PATCH 20,0 - 2891576



Patch cable, CAT6, pre-assembled, 20.0 m

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## Memory

Configuration memory - FL MEM PLUG - 2891259



Exchangeable configuration memory of the device settings for simple device exchange and set-up

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Configuration memory - FL MEM PLUG/MRM - 2891275



Exchangeable configuration memory of the device settings for simple device exchange and set-up. In addition, the Media Redundancy Manager (MRM) license for use is stored within the Media Redundancy protocol (MRP).

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## Smart managed compact switch - FL SWITCH SMCS 8GT - 2891123

### Accessories

Patch panels - FL PF 2TX CAT 6 - 2891068



Patch field with two RJ45 CAT6 network connections

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Patch panels - FL PF 8TX CAT 6 - 2891071



Patch field with eight RJ45 CAT6 network connections

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Software - AX+ BASIC - 2985068



Software CD for FDT container for integrating device DTMs (free download)

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Software - AX DTM LIB - 2988065



DTM library

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