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## FL SWITCH SMCS 6TX/2SFP

Order No.: 2989323



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2989323>

Smart Managed Compact Switch with six RJ45 Fast Ethernet ports and two glass fiber interfaces

Commercial data	
GTIN (EAN)	 4 046356 454919
Note	Made-to-order
sales group	K000
Pack	1 pcs.
Customs tariff	85176200
Catalog page information	Page 185 (AX-2009)

### Product notes

WEEE/RoHS-compliant since:  
11/06/2008



<http://www.download.phoenixcontact.com>  
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### 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.

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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.

### Technical data

#### Interfaces

Interface	Ethernet
No. of ports	6
Type of connection	RJ45
Transmission physics	Copper
Transmission speed	10/100 MBit/s
Transmission length	100 m (per segment)
Interface	Serial (V.24 (RS-232))
Type of connection	V.24 (RS-232-C), 6-pos. MINI-DIN female connector (PS/2)
Interface	Fiber optic interface
No. of ports	2
Type of connection	SFP ports
Transmission physics	Depending on the SFP module
Transmission speed	1000 MBit/s (full duplex)
Transmission length	Up to 80 km (Depending on the fiber/SFP module used)

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**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	650 mA (at $U_s = 24$ V DC)

**General data**

Weight	650 g
Width	128 mm
Height	100 mm
Depth	69 mm
Degree of protection	IP20
Ambient temperature (operation)	0 °C ... 55 °C
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 (1500 m above sea level)
Air pressure (storage/transport)	66 kPa ... 108 kPa (3500 m above sea level)
Noise emission	EN 61000-6-3:2001+A11
Noise immunity	EN 61000-6-2:2005

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**Certificates / Approvals**



Certification

CUL Listed, UL Listed

**Accessories**

Item	Designation	Description
<b>Cable/conductor</b>		
2891181	FL CAT6 PATCH 0,3	Patch cable, CAT6, pre-assembled, 0.3 m
2891288	FL CAT6 PATCH 0,5	Patch cable, CAT6, pre-assembled, 0.5 m
2891385	FL CAT6 PATCH 1,0	Patch cable, CAT6, pre-assembled, 1.0 m
2891482	FL CAT6 PATCH 1,5	Patch cable, CAT6, pre-assembled, 1.5 m
2891877	FL CAT6 PATCH 10	Patch cable, CAT6, pre-assembled, 10 m
2891369	FL CAT6 PATCH 12,5	Patch cable, CAT6, pre-assembled, 12.5 m
2891372	FL CAT6 PATCH 15,0	Patch cable, CAT6, pre-assembled, 15.0 m
2891589	FL CAT6 PATCH 2,0	Patch cable, CAT6, pre-assembled, 2.0 m
2891576	FL CAT6 PATCH 20,0	Patch cable, CAT6, pre-assembled, 20.0 m
2891686	FL CAT6 PATCH 3,0	Patch cable, CAT6, pre-assembled, 3.0 m
2891783	FL CAT6 PATCH 5,0	Patch cable, CAT6, pre-assembled, 5.0 m
2891880	FL CAT6 PATCH 7,5	Patch cable, CAT6, pre-assembled, 7.5 m

**General**

2891259	FL MEM PLUG	Exchangeable configuration memory of the device settings for simple device exchange and set-up
2891275	FL MEM PLUG/MRM	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).
2891068	FL PF 2TX CAT 6	Patch field with two RJ45 CAT6 network connections
2891071	FL PF 8TX CAT 6	Patch field with eight RJ45 CAT6 network connections
2989912	FL SFP LH	Smallform-Factor-Pluggable module is a pluggable input/output module for FO and is used in Gigabit Ethernet.Longhaul communication network

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2891767	FL SFP LX	Small form factor pluggable module is a plug-ininput/output module for FO and is used in Gigabit Ethernet. Glass fiber module with wavelengths of 1300 nm (long).
2891754	FL SFP SX	Small form factor pluggable module is a pluggable input/output module for FO and is used in Gigabit Ethernet. Glass fiber module with a wavelength of 850 nm (short).
<b>Plug/Adapter</b>		
2730611	PRG CAB MINI DIN	Connection cable, to connect Remote Field Controllers to a PC (RS-232) for PC WORX, 3 m in length

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