

## Industrial Ethernet Switch - FL SWITCH SMCS 4TX-PN - 2989093

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Ethernet Smart Managed Compact Switch with four 10/100 Mbps RJ45 ports, PROFINET mode (default)

### Product description

The Smart Managed Compact Switch (SMCS) is an Ethernet switch suitable for industrial applications with four Fast Ethernet ports in RJ45 format. The switch has "PROFINET" mode activated by default.

### Product Features

- Web-based management, SNMP
- SNMP
- MRP (client and master)
- RSTP
- VLANs



Ethernet



EtherNet/IP

### Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	760.0 GRM
Custom tariff number	85176200
Country of origin	Germany

### Technical data

#### Dimensions

Width	128 mm
Height	110 mm
Depth	69 mm

#### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	0 °C ... 60 °C (non-condensing)

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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)	86 kPa ... 108 kPa (2000 m above sea level)
Air pressure (storage/transport)	66 kPa ... 108 kPa (3500 m above sea level)
Noise immunity	EN 61000-6-2:2005

### Interfaces

Interface 1	Ethernet (RJ45)
No. of ports	4 (RJ45 ports)
Connection method	RJ45
Note on connection method	Auto negotiation and autocrossing
Transmission physics	Copper
Transmission speed	10/100 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 socket (PS/2)

### Function

Basic functions	Store-and-forward switch complies with IEEE 802.3 4 priority classes in acc. with 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 Device, Media Redundancy Protocol (MRP).
Management	Web-based management (HTTP)
	SNMP v1/v2
	Serial interface (V.24)
Diagnostic functions	RMON History
	N:1-Portmirroring
	LLDP (Link Layer Discovery Protocol)
	SNMP-Traps
Filter functions	Quality of Service (4 priority classes)
	Portpriorisierung
	VLAN
Supported browsers	Internet Explorer 5.5 or higher
MAC address table	4000
Redundancy_GRP	MRP (Media Redundancy Protocol)
	RSTP (Rapid Spanning Tree)
	FRD (Fast Ring Detection)

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### Function

	Large Tree Support
PROFINET IO device function	PROFINET device
PROFINET IO conformance class	B
EtherNet/IP™ device function	IGMP Snooping (128 groups)
	IGMP Query
	Auto Query Port
	Static Multicast Filtering
	Multicast Source Detection
Time synchronization	SNTP
Additional functions	BootP
	DHCP-Client
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
Signal contact control voltage	24 V (typical)
Signal contact control current	600 mA

### Security functions

Link Layer Discovery Protocol (LLDP)	As per protocol 802.2
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### 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)
Current consumption	600 mA

### General

Mounting type	DIN rail
Type AX	Block design
Weight	650 g
Noise emission	EN 61000-6-3 +A11

### Conformity with EMC directives

Developed in acc. with standard	IEC 61000-6.2
Test standard	IEC 61000-4-2 (ESD)
Test result	Criterion A

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### Conformity with EMC directives

Test standard	IEC 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 A
Test standard	IEC 61000-4-6 (immunity to conducted interference)
Test result	Criterion A

## Classifications

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

## Approvals

### Approvals

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## Approvals

Approvals

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

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Ex Approvals

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Approvals submitted

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## Approval details

UL Listed 

cUL Listed 

UL Listed 

cUL Listed 

cULus Listed 

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