

# FL SWITCH SMCS 16TX - Industrial Ethernet Switch



2700996

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Ethernet Smart Managed Compact Switch with 16 10/100 Mbps RJ45 ports



## Product description

The Smart Managed Compact Switch (SMCS) is an Ethernet switch suitable for industrial applications with 16 Fast Ethernet ports in RJ45 format.

## Your advantages

- MRP (client and manager)
- SNMP
- RSTP
- VLANs
- Web-based management, SNMP
- Extended temperature rating

## Commercial data

Item number	2700996
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DN17
Product key	DNN122
GTIN	4046356692007
Weight per piece (including packing)	1,133 g
Weight per piece (excluding packing)	1,030 g
Customs tariff number	85176200
Country of origin	DE

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## Technical data

### Dimensions

Width	214 mm
Height	110 mm
Depth	69 mm

### Material specifications

Color	gray aluminum
Material base plate	Die-cast aluminum, corrosion-resistant
Housing material	Stainless steel 1.4301

### Mounting

Mounting type	DIN rail mounting
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### Interfaces

#### Ethernet (RJ45)

Connection method	RJ45
Note on the connection method	Auto negotiation and autocrossing
Transmission speed	10/100 Mbps
Transmission physics	Copper
Transmission length	100 m (per segment)
Signal LEDs	Supply voltage, data transmission, error, link, activity
No. of channels	16 (RJ45 ports)

#### Serial (RS-232)

Connection method	RS-232-C, 6-pos. MINI-DIN socket (PS/2)
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### Product properties

Product type	Switch
Product family	Managed Switch SMCS
Type	Block design
MTTF	406.72 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)
	200.07 Years (SN 29500 standard, temperature 40°C, operating cycle 34.25%)
	30.21 Years

#### Insulation characteristics

Protection class	III (VDE 0106)
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#### Switch functions

Diagnostic functions	RMON History
	N:1-Portmirroring
	LLDP (Link Layer Discovery Protocol)

	SNMP-Traps
	ACD (Address Conflict Detection)
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).
Signal contact control voltage	24 V (typical)
Signal contact control current	190 mA (maximum)
PROFINET conformance class	Conformance Class B
PROFINET device function	PROFINET device
	Fast Startup
Filter functions	Quality of Service (4 priority classes)
	Port-Priorisierung
	VLAN
	IGMP Snooping (128 groups)
	IGMP Query
	Auto-Query-Port
	Extended Multicast Filtering
	Static Multicast Filtering
MAC address table	16000
Management	Web-based management (HTTP)
	SNMP v1/v2
	Serial interface (V.24)
Redundancy	MRP (Media Redundancy Protocol)
	RSTP (Rapid Spanning Tree Protocol)
	FRD (Fast Ring Detection)
	Large Tree Support
Status and diagnostic indicators	LEDs: US1, US2 (power supply), Fail (alarm contact), 2 LEDs per Ethernet port (Link and switchable Activity/Speed/Duplex)
Supported browsers	Internet Explorer 5.5 or higher
Additional functions	BootP
	DHCP-Client
Time synchronization	SNTP

## Security functions

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).
Link Layer Discovery Protocol (LLDP)	As per protocol 802.2

## Electrical properties

Current consumption	190 mA
Maximum power dissipation for nominal condition	4.56 W
Test section	500 V DC 1 min

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Transmission medium	Copper
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## Supply

Supply voltage (DC)	24 V DC (redundant)
Supply voltage range	18 V DC ... 32 V DC
Power supply connection	Via COMBICON, max. conductor cross-section 2.5 mm <sup>2</sup>
Residual ripple	3.6 V <sub>PP</sub> (within the permitted voltage range)
Typical current consumption	200 mA (at U <sub>S</sub> = 24 V DC)
Current consumption	190 mA

## Function

Signal contact control voltage	24 V (typical)
Signal contact control current	190 mA (maximum)

## Connection data

Connection method	Screw connection
Conductor cross-section, rigid	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section, flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section AWG	24 ... 12
Stripping length	7 mm

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 70 °C (non-condensing)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	5 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	5 % ... 95 % (non-condensing)
Vibration (operation)	in acc. with IEC 60068-2-6: 5g, 150 Hz
Air pressure (operation)	86 kPa ... 108 kPa (2000 m above mean sea level)
Air pressure (storage/transport)	66 kPa ... 108 kPa (3500 m above sea level)

## Standards and regulations

Free from substances that could impair the application of coating	Yes
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## EMC data

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Conformance with EMC directives	IEC 61000-6-2 IEC 61000-4-2 (ESD) Criterion B
	IEC 61000-4-3 (electromagnetic fields) Criterion A
	IEC 61000-4-4 (burst) Criterion B
	IEC 61000-4-5 (surge) Criterion B
	IEC 61000-4-6 (immunity to conducted interference) Criterion A
Noise immunity	EN 61000-6-2:2005

## Noise emission

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Standards/regulations	EN 61000-6-3
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## System properties

### Functionality

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).
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### System requirements

Supported browsers	Internet Explorer 5.5 or higher
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## Signaling

Status display	LEDs: US1, US2 (power supply), Fail (alarm contact), 2 LEDs per Ethernet port (Link and switchable Activity/Speed/Duplex)
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## Classifications

### UNSPSC

UNSPSC 21.0	43222612
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(a)-I, 6(c), 7(a), 7(c)-I

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
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