

FL SWITCH SMCS 8TX - Industrial Ethernet Switch



2989226

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



Product description

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

Your advantages

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

Commercial data

Item number	2989226
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DN17
Product key	DNN122
GTIN	4046356451864
Weight per piece (including packing)	853.3 g
Weight per piece (excluding packing)	650 g
Customs tariff number	85176200
Country of origin	DE

Technical data

Dimensions

Width	128 mm
Height	110 mm
Depth	69 mm

Material specifications

Color	gray aluminum
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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	8 (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

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
Basic functions	ACD (Address Conflict Detection)
	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)

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Signal contact control current	600 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	4000
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).

Electrical properties

Current consumption	600 mA
Local diagnostics	US1/2 Supply voltage US1, US2 Green LED FAIL Div. LED red LINK Link status Green LED ACT/MODE Receiving/sending telegrams Green LED SPD/MODE Data transmission speed Green/orange LED FD/MODE Duplex mode Green LED
Maximum power dissipation for nominal condition	14.4 W
Test section	500 V DC 1 min
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 ²
Residual ripple	3.6 V _{PP} (within the permitted voltage range)
Typical current consumption	240 mA (at U _S = 24 V DC)
Current consumption	600 mA

Function

Signal contact control voltage	24 V (typical)
Signal contact control current	600 mA (maximum)

Connection data

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

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	0 °C ... 55 °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 accordance with IEC 60068-2-6: 5g, 10 Hz ... 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 A
	IEC 61000-4-3 (electromagnetic fields) Criterion A
	IEC 61000-4-4 (burst) Criterion A
	IEC 61000-4-5 (surge) Criterion A
	IEC 61000-4-6 (immunity to conducted interference) Criterion A
Noise immunity	EN 61000-6-2:2005

Noise emission

Standards/regulations	EN 61000-6-3 +A11
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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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