

# Industrial Ethernet 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


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

## Your advantages

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



## Key Commercial Data

|                                      |   |
|--------------------------------------|---|
| Packing unit                         | 1 pc  |
| GTIN                                 | <br>4 046356 149679 |
| GTIN                                 | 4046356149679   |
| Weight per Piece (excluding packing) | 650.000 g   |
| 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 |
|----------------------|------|

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## Technical data

### Ambient conditions

|  |   |
|--|---|
| 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)               |
| 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) |

### Interfaces

|                               |  |
|-------------------------------|--|
| Interface                     | Ethernet (RJ45)  |
| No. of ports                  | 8 (RJ45 ports)   |
| Note on the connection method | Auto negotiation and autocrossing                        |
| Transmission physics          | Copper   |
| Transmission speed            | 10/100/1000 Mbps   |
| Transmission length           | 100 m (per segment)                                      |
| Signal LEDs                   | Supply voltage, data transmission, error, link, activity |
| Interface                     | Serial (RS-232)  |
| Connection method             | 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   |
|                      | ACD (Address Conflict Detection)   |
| 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   |
| Redundancy           | MRP (Media Redundancy Protocol)  |
|                      | RSTP (Rapid Spanning Tree Protocol)  |
|                      | FRD (Fast Ring Detection)  |

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### Function

|                                  |   |
|----------------------------------|---|
|                                  | Large Tree Support  |
| Additional functions             | BootP   |
|                                  | DHCP-Client   |
| Supported browsers               | Internet Explorer 5.5 or higher   |
| MAC address table                | 4000  |
| PROFINET device function         | PROFINET device   |
|                                  | Fast Startup  |
| PROFINET conformance class       | Conformance-Class B   |
| Time synchronization             | SNTP  |
| Status and diagnostic indicators | LEDs: US1, US2 (power supply), Fail (alarm contact), 2 LEDs per Ethernet port (Link and switchable Activity/Speed/Duplex) |
| 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 |
|--------------------------------------|-----------------------|

### 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 (redundant)                                      |
| 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 | 450 mA (at U <sub>s</sub> = 24 V DC)                     |
| Current consumption         | 600 mA   |

### General

|               |              |
|---------------|--------------|
| Mounting type | DIN rail     |
| Type AX       | Block design |
| Net weight    | 650 g        |

### Connection data

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

### Standards and Regulations

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## Technical data

### Standards and Regulations

|   |  |
|---|--|
| Electromagnetic compatibility                                     | Conformance with EMC Directive 2014/30/EU              |
| Noise emission  | EN 61000-6-3 +A11                                      |
| Noise immunity  | EN 61000-6-2:2005                                      |
| Vibration (storage/transport)                                     | 5g, 10 Hz ... 150 Hz, in accordance with IEC 60068-2-6 |
| Free from substances that could impair the application of coating | Yes  |
| Vibration (operation)   | in accordance with IEC 60068-2-6: 5g, 10 Hz ... 150 Hz |

### Environmental Product Compliance

|            |   |
|------------|---|
| REACH SVHC | Lead 7439-92-1  |
| China RoHS | Environmentally Friendly Use Period = 50  |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

## Classifications

### eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 19170401 |
| eCl@ss 4.0    | 27250501 |
| eCl@ss 4.1    | 27250501 |
| eCl@ss 5.0    | 27250501 |
| eCl@ss 5.1    | 19030100 |
| eCl@ss 6.0    | 19170100 |
| eCl@ss 7.0    | 19170106 |
| eCl@ss 8.0    | 19170106 |
| eCl@ss 9.0    | 19170106 |

### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC000734 |
| ETIM 3.0 | EC000734 |
| ETIM 4.0 | EC000734 |
| ETIM 5.0 | EC000734 |
| ETIM 6.0 | EC000734 |
| ETIM 7.0 | EC000734 |

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 43172015 |
| UNSPSC 7.0901 | 43201404 |
| UNSPSC 11     | 43172015 |
| UNSPSC 12.01  | 43201410 |
| UNSPSC 13.2   | 43222612 |

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## Approvals

### Approvals

#### Approvals

BV / GL / LR / GL-SW / ABS / UL Listed / cUL Listed / EAC / EAC / GL / cULus Listed

#### Ex Approvals

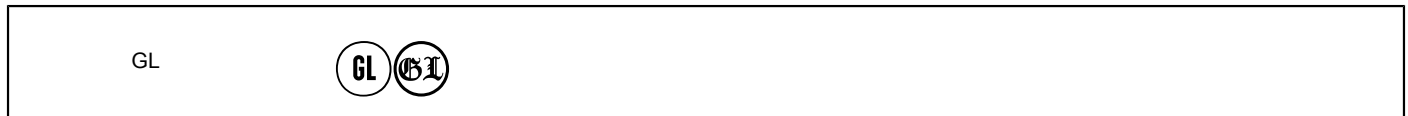
ATEX

### Approval details

|            |  |   |                          |
|------------|--|---|--------------------------|
| BV         |  | <a href="http://www.veristar.com/portal/veristarinfo/generalinfo/approved/approvedProducts/equipmentAndMaterials">http://www.veristar.com/portal/veristarinfo/generalinfo/approved/approvedProducts/equipmentAndMaterials</a> | 22386/B0 BV              |
| GL         |  | <a href="https://approvalfinder.dnvgi.com/">https://approvalfinder.dnvgi.com/</a>   | 60354-09 HH              |
| LR         |  | <a href="http://www.lr.org/en">http://www.lr.org/en</a>   | 09/20009                 |
| GL-SW      |  |   | 60354-09 HH              |
| ABS        |  | <a href="http://www.eagle.org/eagleExternalPortalWEB/">http://www.eagle.org/eagleExternalPortalWEB/</a>   | 15-HG1292148-PDA         |
| UL Listed  |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>   | FILE E 140324            |
| cUL Listed |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>   | FILE E 140324            |
| EAC        |  |   | EAC-Zulassung            |
| EAC        |  |   | RU *-<br>DE.A*30.B.01735 |

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## Approvals



## Accessories

### Accessories

#### Configuration memory

Configuration memory - FL MEM PLUG - 2891259



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

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).

### Drivers and interfaces

Software - FL SNMP OPC SERVER V3 - 2701139



SNMP-OPC server, German and English, for monitoring and configuration of SNMP-capable equipment in HMI and SCADA systems

### Patch cable

Patch cable - FL CAT6 PATCH 0,3 - 2891181

Patch cable, CAT6, pre-assembled, 0.3 m

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### Accessories

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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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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Patch cable - FL CAT6 PATCH 12,5 - 2891369

Patch cable, CAT6, pre-assembled, 12.5 m

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### Accessories

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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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### Programming cable

Connecting cable - COM CAB MINI DIN - 2400127



Connecting cable, for connecting the controller to a PC (RS-232) for PC WORX with flow control, 3 m in length

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Software - IPASSIGN - 2701094



IPAssign is an easy to use tool for setting the IP address of devices which rely on BOOTP. No installation or administrative rights are required to use IPAssign.

This product is free and only available from the "Downloads" tab.

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