

# FL SWITCH MM HS - Industrial Ethernet Switch



2832328

<https://www.phoenixcontact.com/us/products/2832328>

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Modular switch system, head station, can be expanded to 24 Ethernet ports



## Commercial data

Item number	2832328
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	NULL
Product key	DNN123
GTIN	4017918929091
Weight per piece (including packing)	1,529 g
Weight per piece (excluding packing)	1,350 g
Customs tariff number	85176200
Country of origin	DE

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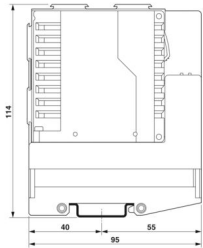


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## Technical data

### Dimensions

Dimensional drawing	
Width	214 mm
Height	95 mm
Depth	115 mm

### Notes

#### Utilization restriction

EMC note	EMC: class A product, see manufacturer's declaration in the download area
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### Material specifications

Housing material	Zinc die-cast, surface bronzed and nickel-plated
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### Mounting

Mounting type	DIN rail mounting
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### Interfaces

#### Ethernet

Connection method	8 ports via FL IF (interface) modules
Transmission speed	10/100 Mbps
Transmission physics	Copper
No. of channels	8 (Can be extended to a maximum of 24 ports)

#### Ethernet FO

Connection method	via interface module
Transmission speed	100 Mbps (full duplex)
Transmission physics	multi-mode fiberglass
Transmission length	up to 10000 m (depending on the fiber used) 1300 nm
No. of channels	8 (Can be extended to a maximum of 24 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
Type	Stand-alone

### Insulation characteristics

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
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### Switch functions

Basic functions	Store and forward switch complies with IEEE 802.3 2 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), port security, PROFINET-IO-device, DHCP option 82 relay agent
PROFINET device function	PROFINET device
PROFINET specification	Version 1.1
Redundancy	STP (Spanning Tree Protocol)
	RSTP (Rapid Spanning Tree Protocol)
	FRD (Fast Ring Detection)
	Large Tree Support
MRP (Media Redundancy Protocol)	
Status and diagnostic indicators	Per Ethernet 2 status LEDs: LINK and switch-over Status Activity, 100, full duplex, supply voltage $U_{S1}$ und $U_{S2}$ (redundant supply voltage) and FAIL, two-digit 7-segment display
Supported browsers	Internet Explorer 5.5 or higher

### Security functions

Basic functions	Store and forward switch complies with IEEE 802.3 2 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), port security, PROFINET-IO-device, DHCP option 82 relay agent
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## Electrical properties

Power consumption	typ. 8.4 W (up to 78 W, depends on the configuration (extensions/Interface modules))
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
	100/MODE Data transmission speed Green LED
	FD/MODE Duplex mode Green LED
Maximum power dissipation for nominal condition	8.4 W
Transmission medium	Copper
	FO

### Supply

Supply voltage	24 V DC
Supply voltage range	18.5 V DC ... 30.2 V DC

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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)
Max. current consumption	3.5 A
Typical current consumption	350 mA (up to 3500 mA, depends on the configuration)

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	0 °C ... 55 °C (non-condensing)
Ambient temperature (storage/transport)	-20 °C ... 70 °C
Permissible humidity (operation)	10 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	10 % ... 95 % (non-condensing)
Vibration (operation)	in acc. with IEC 60068-2-6: 5g, 150 Hz
Air pressure (operation)	80 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	In acc. with VW specification
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## EMC data

Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Conformance with EMC directives	IEC 61000-4-2 (ESD) Criterion B
	IEC 61000-4-3 (immunity to radiated interference) Criterion A
	IEC 61000-4-4 (burst) Criterion A
	IEC 61000-4-5 (surge) Criterion B
	IEC 61000-4-6 (immunity to conducted interference) Criterion A
	EN 55022 (emitted interference) Class A
Noise immunity	EN 61000-6-2:2005

### Noise emission

Standards/regulations	EN 61000-6-3/-4
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## System properties

### Functionality

Basic functions	Store and forward switch complies with IEEE 802.3 2 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), port security, PROFINET-IO-device, DHCP option 82 relay agent
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### System requirements

Supported browsers	Internet Explorer 5.5 or higher
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## Signaling

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Status display

Per Ethernet 2 status LEDs: LINK and switch-over Status Activity, 100, full duplex, supply voltage  $U_{S1}$  und  $U_{S2}$  (redundant supply voltage) and FAIL, two-digit 7-segment display

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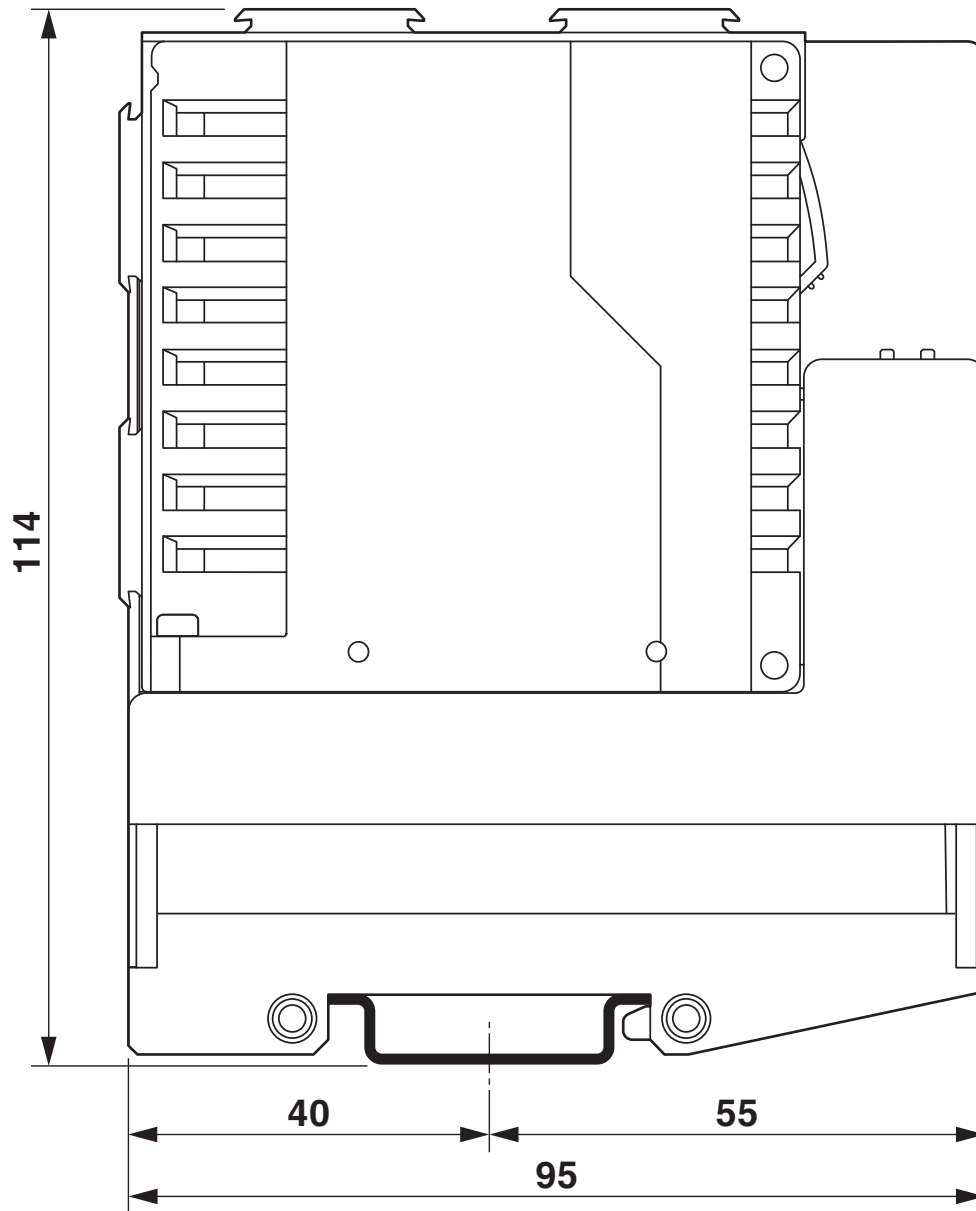


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## Drawings

Dimensional drawing



The figure shows the head station FL SWITCH MM HS with interface module

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## Environmental product compliance

EU REACH SVHC

REACH candidate substance (CAS No.)	
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	No substance above 0.1 wt%
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