

2700200

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Unmanaged Switch 1600, 5 M12 ports 10/100 Mbps, degree of protection: IP65/IP66/IP67, PROFINET Conformance-Class A

### Product description

Ethernet interface: The FL SWITCH 1605 M12 has five Ethernet ports on the front in M12 format, to which only CAT5/CAT6 Ethernet cables with D-coded M12 connectors can be connected. The data transmission speed is 10 Mbps or 100 Mbps. In addition, each port has an autocrossing function at 100 Mbps. It is not necessary to distinguish between 1:1 and crossover Ethernet cables. Switching properties of the FL SWITCH 1605 M12 – Store and forward: The switch independently learns the addresses for terminal devices, which are connected via a port, by evaluating the source addresses in the data telegrams. Only packets with unknown addresses, with a source address of this port or with a multicast/broadcast address in the destination address field are forwarded via the corresponding port. The switch can store up to 4096 addresses in its address table with an aging time of 40 seconds. This is important if more than one terminal device is connected to one or more ports. In this way, several independent subnets can be connected to one switch. - Multi-address function: The switch independently learns the addresses for terminal devices, which are connected via a port, by evaluating the source addresses in the data telegrams. Only packets with unknown addresses, with a source address of this port or with a multicast/broadcast address in the destination address field are forwarded via the corresponding port. The switch can store up to 4096 addresses in its address table with an aging time of 40 seconds. This is important if more than one terminal device is connected to one or more ports. In this way, several independent subnets can be connected to one switch. - Quality of Service (QoS) With the aid of the Quality of Service function, the switch can process PROFINET traffic preferentially. To do this, the switch detects the QoS priority from the Ethernet packets and forwards the Ethernet packets with higher priority first.

#### Your advantages

- · Robust IP67 housing
- · Easy panel mounting

#### Commercial data

Item number	2700200
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN19
Product key	DNN114
Catalog page	Page 300 (C-6-2019)
GTIN	4046356499781
Weight per piece (including packing)	277 g
Weight per piece (excluding packing)	220 g
Customs tariff number	85176200
Country of origin	DE



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### Technical data

#### **Dimensions**

Dimensional drawing	200 200 200 200 200 200 200 200 200 200
Width	30 mm
Height	200 mm
Depth	41 mm
Drill hole spacing	186 mm

### Notes

C C S	NOTE: Meet noise immunity requirements  Connect FE using a mounting screw when mounting on a conductive surface. When mounting on a non-conductive surface, FE is connected using the mounting screw via a cable lug.
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### Material specifications

Color	anthracite
Material base plate	High-grade steel (1.4301/1.4016)
Housing material	PBT

### Mounting

Mounting type	Wall mounting
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### Interfaces

#### Ethernet

Connection method	M12, shielded
Note on the connection method	D-coded
Transmission speed	10/100 Mbps
Transmission physics	Twisted pair connection
Transmission length	100 m (per segment)
Signal LEDs	Data receive, link status
No. of channels	5 (M12 ports)

## Product properties

Туре	Stand-Alone
Product type	Switch
Product family	Unmanaged Switch 1600
MTTF	302.5 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)
	156.52 Years (SN 29500 standard, temperature 40°C, operating cycle 34.25%)



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	40.43 Years (SN 29500 standard, temperature 55°C, operating cycle 100%)
nsulation characteristics	
Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
Overvoltage category	II.
Degree of pollution	2
Switch functions	
Basic functions	Unmanaged switch/auto negotiation, complies with standard IEEE 802.3, store-and-forward switching mode, 2 priority classe according to IEEE802.1p, PTCP filter
PROFINET conformance class	Conformance-Class A
Status and diagnostic indicators	LEDs: US (power supply), 2 LEDs per Ethernet port (Link and Activity)
Additional functions	Autonegotiation
Security functions	
Basic functions	Unmanaged switch/auto negotiation, complies with standard IEEE 802.3, store-and-forward switching mode, 2 priority classe according to IEEE802.1p, PTCP filter
ectrical properties	
Local diagnostics	US Supply voltage US Green LED
	X1X5 Link status Green LED
	X1X5 Receiving/sending telegrams Green LED
Maximum power dissipation for nominal condition	0.96 W
Test section	Between the Ethernet ports 1500 V AC 1 min.
	24 V supply (US) / FE 500 V DC 1 min.
Transmission medium	Copper
Supply	
Supply voltage (DC)	24 V DC (M12 connector)
Supply voltage range	9 V DC 32 V DC
Power supply connection	via M12 connector
Residual ripple	3.6 V <sub>PP</sub>
Max. current consumption	40 mA (+10 mA per port)
Typical current consumption	40 mA (at U <sub>S</sub> = 24 V DC)
Current consumption	40 mA 80 mA (at 24 V DC)
onnection data	
Connection method	M12, shielded
vironmental and real-life conditions	
Ambient conditions	
Degree of protection	IP65
	IP66



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	IP67
Ambient temperature (operation)	-40 °C 70 °C
Ambient temperature (storage/transport)	-40 °C 70 °C
Altitude	max. 2000 m (above mean sea level (operation))
Permissible humidity (operation)	10 % 95 %
Permissible humidity (storage/transport)	10 % 95 % (non-condensing)
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)

### EMC data

Conformance with EMC directives	Noise emission test in accordance with EN 61000-6-3/IEC 61000-6-3 EN 61000-6-3 (noise emission) Class B
	EN 55011 (emitted interference) Class B
	EN 55022 (emitted interference) Class B
	EN 61000-4-2 (ESD) Criterion B
	EN 61000-4-3 (electromagnetic fields) Criterion A, 20 V/m
	EN 61000-4-3 (electromagnetic fields) Criterion A, 10 V/m
	EN 61000-4-4 Criterion A, 2.2 kV
	EN 61000-4-5 (surge) Criterion A, interfaces 1 kV
	EN 61000-4-6 (line noise immunity) Criterion A, Field intensity: 10 V/m
	EN 60950-1
Noise immunity	EN 61000-6-2
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Noise emission	EN 61000-6-4

### System properties

### Functionality

	Basic functions	Unmanaged switch/auto negotiation, complies with standard IEEE 802.3, store-and-forward switching mode, 2 priority classes according to IEEE802.1p, PTCP filter
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### Signaling

Status display	LEDs: US (power supply), 2 LEDs per Ethernet port (Link and
	Activity)



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# Classifications

UNSPSC 21.0

### **ECLASS**

ECLASS-	11.0	19170402
ECLASS-	12.0	19170402
ECLASS-	13.0	19170402
ETIM		
ETIM 9.0		EC000734
UNSPSC		

43222600



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# Environmental product compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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