

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

Notes

General	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.

Note on application

Note on application Only for industrial use

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

Product type	Switch
Product family	Unmanaged Switch 1600
Туре	Stand-Alone



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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%)
	40.43 Years (SN 29500 standard, temperature 55°C, operating cycle 100%)
Data management status	
Article revision	08
Insulation characteristics	
Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
Overvoltage category	(IEG 61146, ER61146, VBE 6146 1)
Degree of pollution	2
2 - 5, - 2 - 3 - 4 - 1 - 1 - 1	
Switch functions	
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
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
Dasic functions	IEEE 802.3, store-and-forward switching mode, 2 priority classes according to IEEE802.1p, PTCP filter
ectrical properties	
Current consumption	40 mA 80 mA (at 24 V DC)
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 _{PP}
	10 1 (110 1
Max. current consumption	40 mA (+10 mA per port)
Max. current consumption Typical current consumption	40 mA (+10 mA per port) 40 mA (at U _S = 24 V DC)

Connection data



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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 ystem properties Functionality Basic functions Unmanaged switch/auto negotiation, complies with standard		
Ambient conditions Degree of protection IP65	Connection method	M12, shielded
Ambient conditions Degree of protection IP65	nvironmental and real-life conditions	
Degree of protection IP65		
IP66 IP67 Ambient temperature (operation) Another temperature (storage/transport) Altitude max_2000 m (above mean sea level (operation)) Permissible humidity (operation) 10 % 95 % (non-condensing) Air pressure (operation) Air pressure (operation) Air pressure (storage/transport) Air pressure (storage/transport) Air pressure (storage/transport) MC data Conformance with EMC directives Noise emission test in accordance with EN 61000-6-3/(EC 61000-6-3 EN 61000-6-3 (noise emission) Class B EN 55011 (emitted interference) Class B EN 55022 (emitted interference) Class B EN 61000-4-3 (electromagnetic fields) Criterion A, 20 V/m EN 61000-4-3 (electromagnetic fields) Criterion A, 10 V/m EN 61000-4-3 (electromagnetic fields) Criterion A, 10 V/m EN 61000-4-5 (surge) Criterion A, interfaces 1 kV EN 61000-4-5 (surge) Criterion A, interfaces 1 kV EN 61000-4-5 (line noise immunity) Criterion A, Field intensity: 10 V/m EN 65050-1 Noise immunity EN 65050-1 Noise emission EN 61000-6-2 Electromagnetic compatibility Conformance with EMC Directive 2014/30/EU EN 61000-6-3 Functionality Basic functions Unmanaged switch/auto negotiation, complies with standard IEEE 802.3, store-and-forward switching mode, 2 priority class according to IEEE802.1p, PTCP filter	Ambient conditions	
Ambient temperature (operation) Ambient temperature (storage/transport) Aftitude max. 2000 m (above mean sea level (operation)) Permissible humidity (operation) Permissible humidity (operation) 10 % 95 % (non-condensing) Air pressure (operation) Air pressure (storage/transport) Air pressure (storage/transport) Conformance with EMC directives Modata Conformance with EMC directives Noise emission test in accordance with EN 61000-6-3/ICC 61000-6-3/ICC 61000-6-3 (noise emission) 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 61000-4-5 (line noise immunity) Criterion A, Field intensity: 10 V/m EN 61000-4-5 (line noise immunity) Criterion A, Field intensity: 10 V/m EN 61000-6-2 Electromagnetic compatibility Noise emission Conformance with EMC Directive 2014/30/EU System properties Functionality Basic functions Unmanaged switch/auto negotiation, complies with standard IEEE 802.3, store-and-forward switching mode, 2 priority class according to IEEE802.1p, PTCP filter	Degree of protection	IP65
Ambient temperature (operation) Ambient temperature (storage/transport) Ambient temperature (storage/transport) Altitude max. 2000 m (above mean sea level (operation)) Permissible humidity (operation) 10 % 95 % Permissible humidity (storage/transport) Air pressure (operation) Air pressure (storage/transport) MC 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 61000-4-3 (electromagnetic fields) Criterion A, 20 V/m EN 61000-4-3 (electromagnetic fields) Criterion A, 10 V/m EN 61000-4-5 (surge) Criterion A, 10 V/m EN 61000-4-5 (surge) Criterion A, interfaces 1 kV EN 61000-4-5 (surge) Criterion A, Field intensity: 10 V/m EN 61000-6-2 Electromagnetic compatibility Noise emission EN 61000-6-4 Vestern Poperties Functionality Basic functions Unmanaged switch/auto negotiation, complies with standard IEEE 802.3, store-and-forward switching mode, 2 priority class according to IEEE802.1p, PTCP filter		IP66
Ambient temperature (storage/transport) Altitude max. 2000 m (above mean sea level (operation)) Permissible humidity (operation) 10 % 95 % Permissible humidity (storage/transport) Air pressure (operation) Air pressure (storage/transport) MC data Conformance with EMC directives Noise emission test in accordance with EN 61000-6-3 //3/EC 61000-6-3 EN 61000-6-3 (noise emission) Class B EN 55011 (emitted interference) Class B EN 61000-4-3 (electromagnetic fields) Criterion A, 20 V/m EN 61000-4-3 (electromagnetic fields) Criterion A, 10 V/m EN 61000-4-5 (surge) Criterion A, 10 V/m EN 61000-4-6 (line noise immunity) Criterion A, Field intensity: 10 V/m EN 60950-1 Noise emission Noise emission EN 61000-6-2 Electromagnetic compatibility Conformance with EMC Directive 2014/30/EU EN 61000-6-4 Vetem properties Functionality Basic functions Unmanaged switch/auto negotiation, complies with standard IEEE 802.3, store-and-forward switching mode, 2 priority class according to IEEE802.1p, PTCP filter		IP67
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) 88 kPa 108 kPa (2000 m above mean sea level) Air pressure (storage/transport) 66 kPa 108 kPa (3500 m above sea level) MC 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 55012 (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 61000-4-6 (line noise immunity) Criterion A, Field intensity: 10 V/m EN 61000-6-2 Electromagnetic compatibility Conformance with EMC Directive 2014/30/EU EN 61000-6-4 Vetem properties Functionality Basic functions Unmanaged switch/auto negotiation, complies with standard IEEE 802.3, store-and-forward switching mode, 2 priority class according to IEEE802.1p, PTCP filter	Ambient temperature (operation)	-40 °C 70 °C
Permissible humidity (operation) Permissible humidity (storage/transport) Air pressure (operation) Air pressure (storage/transport) Air pressure (storage/transport) MC 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 (suge) 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 6000-6-2 Electromagnetic compatibility Noise emission Noise emission Unmanaged switch/auto negotiation, complies with standard IEEE 802.3, store-and-forward switching mode, 2 priority class according to IEEE802.1p, PTCP filter	Ambient temperature (storage/transport)	-40 °C 70 °C
Permissible humidity (storage/transport) Air pressure (operation) Air pressure (storage/transport) MC data Conformance with EMC directives Noise emission test in accordance with EN 61000-6-3 (noise emission) Class B EN 55011 (emitted interference) Class B EN 55022 (emitted interference) Class B EN 61000-4-3 (electromagnetic fields) Criterion A, 20 V/m EN 61000-4-5 (surge) Criterion A, 10 V/m 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 61000-6-2 Electromagnetic compatibility Noise emission EN 61000-6-3 Unmanaged switch/auto negotiation, complies with standard IEEE 802.3, store-and-forward switching mode, 2 priority class according to IEEE802.1p, PTCP filter	Altitude	max. 2000 m (above mean sea level (operation))
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Air pressure (storage/transport) MC 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 61000-4-5 (surge) Criterion A, 10 V/m 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 ystem properties Functionality Basic functions Unmanaged switch/auto negotiation, complies with standard IEEE 802.3, store-and-forward switching mode, 2 priority class according to IEEE802.1p, PTCP filter	Permissible humidity (storage/transport)	10 % 95 % (non-condensing)
MC 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 61000-4-5 (surge) Criterion A, 12 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 ystem properties Functionality Basic functions Unmanaged switch/auto negotiation, complies with standard IEEE 802.3, store-and-forward switching mode, 2 priority class according to IEEE802.1p, PTCP filter	Air pressure (operation)	86 kPa 108 kPa (2000 m above mean sea level)
Conformance with EMC directives Noise emission test in accordance with EN 61000-6-3 (noise emission) Class B	Air pressure (storage/transport)	66 kPa 108 kPa (3500 m above sea level)
Conformance with EMC directives Noise emission test in accordance with EN 61000-6-3 (noise emission) Class B	NO.14	
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 ystem properties Functionality Basic functions Unmanaged switch/auto negotiation, complies with standard IEEE 802.3, store-and-forward switching mode, 2 priority class according to IEEE802.1p, PTCP filter	MC data	
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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 yetem properties Functionality Basic functions Unmanaged switch/auto negotiation, complies with standard IEEE 802.3, store-and-forward switching mode, 2 priority class according to IEEE802.1p, PTCP filter		EN 61000-4-2 (ESD) Criterion B
EN 61000-4-4 Criterion A, 2.2 kV EN 61000-4-5 (surge) Criterion A, interfaces 1 kV EN 61000-4-5 (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 ystem properties Functionality Basic functions Unmanaged switch/auto negotiation, complies with standard IEEE 802.3, store-and-forward switching mode, 2 priority class according to IEEE802.1p, PTCP filter		EN 61000-4-3 (electromagnetic fields) Criterion A, 20 V/m
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 ystem properties Functionality Basic functions Unmanaged switch/auto negotiation, complies with standard IEEE 802.3, store-and-forward switching mode, 2 priority class according to IEEE802.1p, PTCP filter		EN 61000-4-3 (electromagnetic fields) Criterion A, 10 V/m
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 ystem properties Functionality Basic functions Unmanaged switch/auto negotiation, complies with standard IEEE 802.3, store-and-forward switching mode, 2 priority class according to IEEE802.1p, PTCP filter		EN 61000-4-4 Criterion A, 2.2 kV
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 ystem properties Functionality Basic functions Unmanaged switch/auto negotiation, complies with standard IEEE 802.3, store-and-forward switching mode, 2 priority class according to IEEE802.1p, PTCP filter		EN 61000-4-5 (surge) Criterion A, interfaces 1 kV
Noise immunity EN 61000-6-2 Electromagnetic compatibility Conformance with EMC Directive 2014/30/EU EN 61000-6-4 ystem properties Functionality Basic functions Unmanaged switch/auto negotiation, complies with standard IEEE 802.3, store-and-forward switching mode, 2 priority class according to IEEE802.1p, PTCP filter Ignaling		EN 61000-4-6 (line noise immunity) Criterion A, Field intensity: 10 V/m
Electromagnetic compatibility Noise emission EN 61000-6-4 ystem properties Functionality Basic functions Unmanaged switch/auto negotiation, complies with standard IEEE 802.3, store-and-forward switching mode, 2 priority class according to IEEE802.1p, PTCP filter ignaling		EN 60950-1
Noise emission EN 61000-6-4 ystem properties Functionality Basic functions Unmanaged switch/auto negotiation, complies with standard IEEE 802.3, store-and-forward switching mode, 2 priority class according to IEEE802.1p, PTCP filter gnaling	Noise immunity	EN 61000-6-2
Functionality Basic functions Unmanaged switch/auto negotiation, complies with standard IEEE 802.3, store-and-forward switching mode, 2 priority class according to IEEE802.1p, PTCP filter	Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Functionality Basic functions Unmanaged switch/auto negotiation, complies with standard IEEE 802.3, store-and-forward switching mode, 2 priority class according to IEEE802.1p, PTCP filter ignaling	Noise emission	EN 61000-6-4
Basic functions Unmanaged switch/auto negotiation, complies with standard IEEE 802.3, store-and-forward switching mode, 2 priority class according to IEEE802.1p, PTCP filter gnaling	ystem properties	
IEEE 802.3, store-and-forward switching mode, 2 priority class according to IEEE802.1p, PTCP filter ignaling	•	
	Basic functions	IEEE 802.3, store-and-forward switching mode, 2 priority classes
Status display LEDs: US (power supply), 2 LEDs per Ethernet port (Link and	ignaling	
	Status display	LEDs: US (power supply), 2 LEDs per Ethernet port (Link and

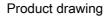
Activity)

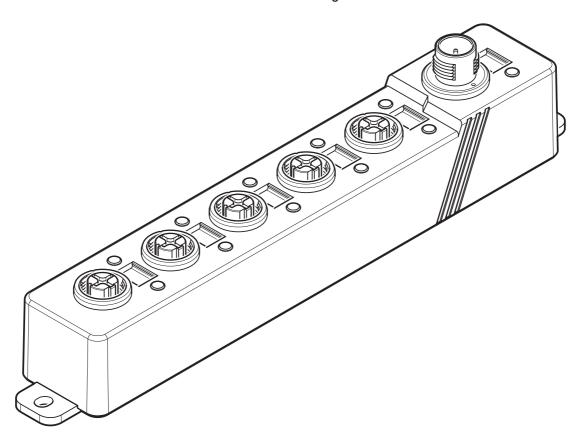


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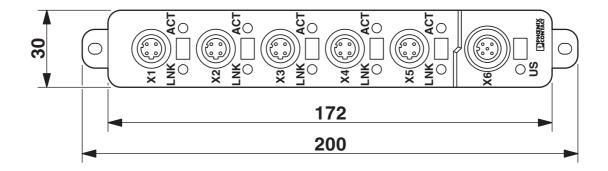
https://www.phoenixcontact.com/pc/products/2700200

Drawings





Dimensional drawing

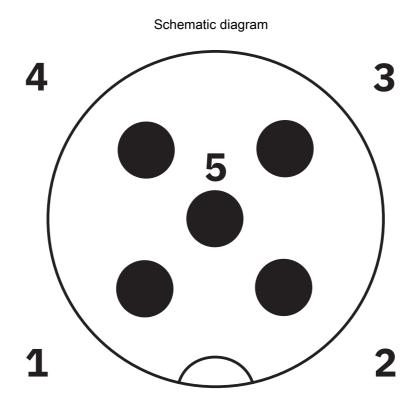


Top view (dimensions in mm)



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Connecting the supply voltage

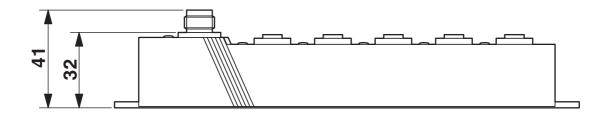
PIN 1 Us PIN 2 n.c.

Pin 3 GND

Pin 4 n.c.

Pin 5 functional ground

Dimensional drawing

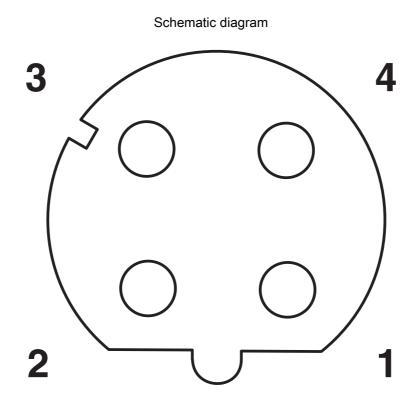


Side view (dimensions in mm)



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Assignment of the LAN socket

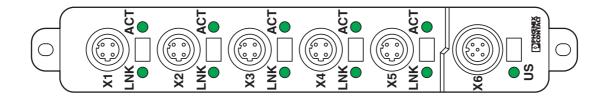
Pin 1 Transmit +

Pin 2 Receive +

Pin 3 Transmit -

Pin 4 Receive -

Product drawing



X1 - X5: Ethernet connection

X6: Supply voltage ACT: ACT LEDs LNK: Link LED US: U_{S1} LED



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/pc/products/2700200



cUL RecognizedApproval ID: E140324



UL RecognizedApproval ID: E140324



EAC

Approval ID: RU*-DE.*.B.00741/19



UL Recognized

Approval ID: E140324



EAC

Approval ID: RU*-DE.*.B.00741/19



cUL Recognized

Approval ID: E140324



cULus ListedApproval ID: E238705

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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

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 7(a), 7(c)-l
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)
SCIP	47848e5f-3738-4420-8dd5-3bdd7beddecf
EF3.0 Climate Change	
CO2e kg	20.37 kg CO2e

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