

FL HUB 10BASE-T - Hub



2831028

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DIN-rail mountable hub module that can be aligned, with four ports, 10Base-T, and signal contact

Commercial data

Item number	2831028
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DN13
Product key	DNN141
GTIN	4017918811013
Weight per piece (including packing)	347 g
Weight per piece (excluding packing)	347 g
Customs tariff number	84718000
Country of origin	DE

Technical data

Product properties

Type	Stand-alone
Operating mode	Semi-duplex

Insulation characteristics

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
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System properties

Functionality

Basic functions	Hub/repeater, compliance with IEEE 802.3
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Electrical properties

Electrical isolation	10Base-T// supply
Power consumption	typ. 4.6 W
Local diagnostics	UL Supply voltage Green LED
	COL Telegram collisions LED red
	- Link status Green LED
	- Telegrams received Yellow LED
Maximum power dissipation for nominal condition	4.6 W
Test section	500 V AC 50 Hz 1 min
Transmission medium	Copper

Supply

Supply voltage	24 V DC (via COMBICON; max. conductor cross-section 2.5 mm ²)
Supply voltage range	18.5 V DC ... 30.5 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	190 mA (to U _S)

Function

Signal contact control voltage	24 V DC (typical)
Signal contact control current	100 mA (typical)

Connection data

Connection method	RJ45, shielded
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Interfaces

Ethernet

Connection method	Four 10Base-T ports
Transmission speed	10 Mbps (half duplex)
Transmission physics	Ethernet RJ45

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Transmission length	100 m (per segment)
Signal LEDs	Data receive, link status

Potential-free signaling contact

Connection method	Plug-in/screw connection via COMBICON
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Backbone port

Connection method	Direct plug-in technology
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Signaling

Status display	LEDs: UL (communications voltage), COL (collision) link and receive LED per port
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Dimensions

Width	45 mm
Height	99 mm
Depth	112 mm

Material specifications

Color	green
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Mechanical tests

Shock in accordance with EN 60068-2-27/IEC 60068-2-27	: Operation: 25g, 11 ms duration, semi-sinusoidal shock impulse
	: Storage/Transport: 50g, 11 ms duration, semi-sinusoidal shock impulse
Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6	: Operation/Storage/Transport: 5g, 150 Hz, Criterion 3
Free fall in accordance with IEC 60068-2-32	: 1 m

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	0 °C ... 55 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C
Permissible humidity (operation)	30 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	30 % ... 95 % (non-condensing)
Vibration (operation)	in acc. with IEC 60068-2-6: 5g, 150 Hz
Air pressure (operation)	86 kPa ... 108 kPa (1500 m above sea level)
Air pressure (storage/transport)	66 kPa ... 108 kPa (3500 m above sea level)
Resistance to gases that may endanger the functions, in acc. with DIN 40046-36, DIN 40046-37	Sulfur dioxide (SO ₂) 10 ±0.3 cm ³ /m ³ , hydrogen sulfide (H ₂ S) 1 ±0.3 cm ³ /m ³ , at 25°C and 75% humidity and exposure of four days

EMC data

Electromagnetic compatibility	Conformance with EMC directive 89/336/EC
Conformance with EMC directives	IEC 61000-6-2 IEC 61000-4-2 (ESD) Criterion B
	IEC 61000-4-3 (immunity to radiated interference) Criterion A

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	IEC 61000-4-4 (burst) Criterion B
	IEC 61000-4-5 (surge) Criterion B
	IEC 61000-4-6 (immunity to conducted interference) Criterion A
	IEC 61000-4-8 (immunity to magnetic fields) Criterion A
	EN 55022 (emitted interference) Criterion A
Noise immunity	EN 61000-6-2:2005

Noise emission

Standards/regulations	EN 61000-6-4
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Standards and regulations

Free from substances that could impair the application of coating	In acc. with VW specification
Electrical isolation	10Base-T// supply

Mounting

Mounting type	DIN rail mounting
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Environmental product compliance

EU REACH SVHC

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