

FL HUB 10BASE-T - Hub



2831028

<https://www.phoenixcontact.com/us/products/2831028>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



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)
------------------	---------------------------------------

System properties

Functionality

Basic functions	Hub/repeater, compliance with IEEE 802.3
-----------------	--

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
-------------------	----------------

Interfaces

Ethernet

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

FL HUB 10BASE-T - Hub



2831028

<https://www.phoenixcontact.com/us/products/2831028>

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

Potential-free signaling contact

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

Backbone port

Connection method	Direct plug-in technology
-------------------	---------------------------

Signaling

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

Dimensions

Width	45 mm
Height	99 mm
Depth	112 mm

Material specifications

Color	green
-------	-------

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

FL HUB 10BASE-T - Hub



2831028

<https://www.phoenixcontact.com/us/products/2831028>

	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
-----------------------	--------------

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
---------------	-------------------

FL HUB 10BASE-T - Hub

2831028

<https://www.phoenixcontact.com/us/products/2831028>



Environmental product compliance

EU REACH SVHC

REACH candidate substance (CAS No.)	
-------------------------------------	--

	No substance above 0.1 wt%
--	----------------------------

Phoenix Contact 2026 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com