

ZFKDSA 1,5C-5,0- 4-EXPROFINET1 - PCB terminal block



1033571

<https://www.phoenixcontact.com/us/products/1033571>

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Printed circuit board terminal, nominal current: 16 A, nominal cross section: 1.5 mm², number of potentials: 4, number of rows: 1, number of positions per row: 4, product range: ZFKDS(A) 1,5C-EX PROFINET, pitch: 5 mm, connection method: Spring-cage connection, mounting: Wave soldering, conductor/PCB connection direction: 45 °, color: green, Pin layout: Linear pinning, Solder pin [P]: 3.5 mm, number of solder pins per potential: 2, type of packaging: packed in cardboard. PCB terminal block satisfies the requirements of the "Guideline for PROFINET" in the 2017-05 edition, suitable for CAT5

Your advantages

- Satisfies the requirements of the "Guideline for PROFINET" in the edition dated 05/2017
- Satisfies CAT5 requirements in accordance with EN 50173 and ISO/IEC 11801
- Satisfies the more stringent safety requirements of "Ex e" protection according to IEC 60079-7 for potentially explosive areas
- Defined contact force ensures that contact remains stable over the long term
- Angled connection enables multi-row arrangement on the PCB
- Clamping space opened by means of fixed screwdriver enables convenient conductor connection
- Actuation shafts that are parallel and orthogonal to the conductor axis enable flexible PCB designs
- Two solder pins reduce the mechanical strain on the soldering spots

Commercial data

Item number	1033571
Packing unit	50 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	AA12
Product key	AALMBE
GTIN	4055626539430
Weight per piece (including packing)	4.13 g
Weight per piece (excluding packing)	3.766 g
Customs tariff number	85369010
Country of origin	PL

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Technical data

Product properties

Product type	Printed circuit board terminal
Product family	ZFKDS(A) 1,5C-EX PROFINET
Product line	COMBICON Terminals S
Number of positions	4
Pitch	5 mm
Number of connections	4
Number of rows	1
Number of potentials	4
Pin layout	Linear pinning
Solder pins per potential	2

Electrical properties

Properties

Nominal current I_N	16 A
Nominal voltage U_N	176 V
Rated current / conductor cross-section	16 A/1.5 mm ²

Data transmission

Signal type	PROFINET
Frequency range	to 100 MHz
Transmission medium	Copper
Transmission characteristics (category)	CAT5
Data transmission rate	100 Mbps

Ex data

Ex approval

Identification	0344 [Ⓢ] II 2GD / Ex eb IIC Gb
EU-type examination certificate	DEKRA 22ATEX0001U
IECEx certificate	IECEx DEK 22.0001U

Connection data

Connection technology

Nominal cross section	1.5 mm ²
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Conductor connection

Connection method	Spring-cage connection
Conductor cross-section rigid	0.2 mm ² ... 2.5 mm ²
Conductor cross-section flexible	0.2 mm ² ... 1.5 mm ²
Stripping length	7 mm

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Mounting

Mounting type	Wave soldering
Pin layout	Linear pinning

Material specifications

Material data - contact

Note	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201
Contact material	Cu alloy
Surface characteristics	hot-dip tin-plated
Metal surface terminal point (top layer)	Tin (10 µm - 16 µm Sn)
Metal surface soldering area (top layer)	Tin (10 µm - 16 µm Sn)

Material data - housing

Color (Housing)	green (6021)
Insulating material	PA
Insulating material group	I
CTI according to IEC 60112	600
Flammability rating according to UL 94	V0
Glow wire flammability index GWFI according to EN 60695-2-12	850
Glow wire ignition temperature GWIT according to EN 60695-2-13	775
Temperature for the ball pressure test according to EN 60695-10-2	125 °C

Material data – actuating element

Color (Actuating element)	green (6021)
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Notes

Note on application	The item is qualified for CAT5 Ethernet applications. For this reason, it is suited for use in IoT devices.
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Dimensions

Dimensional drawing	
Pitch	5 mm
Width [w]	21.9 mm
Height [h]	16.23 mm
Length [l]	14.02 mm
Installed height	12.73 mm
Solder pin length [P]	3.5 mm

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Pin dimensions	0.7 x 0.7 mm
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PCB design

Pin spacing	5.08 mm
Hole diameter	1.1 mm

Environmental and real-life conditions

Ambient conditions

Ambient temperature (storage/transport)	-40 °C ... 70 °C
Relative humidity (storage/transport)	30 % ... 70 %
Ambient temperature (assembly)	-5 °C ... 100 °C
Ambient temperature (operation)	-50 °C ... 110 °C

Packaging specifications

Type of packaging	packed in cardboard
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Approvals

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 IECEX Approval ID: IECEX DEK 22.0001U				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	176 V	16 A	-	0.2 - 2.5

 ATEX Approval ID: DEKRA 22ATEX0001U				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	176 V	16 A	-	0.2 - 2.5

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Classifications

ECLASS

ECLASS-13.0	27460101
ECLASS-15.0	27460101

ETIM

ETIM 10.0	EC002643
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UNSPSC

UNSPSC 21.0	39121400
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com