

ZFKDS 2,5-5,08 L-EX - PCB terminal block



1732140

<https://www.phoenixcontact.com/us/products/1732140>

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Printed circuit board terminal, nominal current: 22 A, nominal cross section: 2.5 mm², number of potentials: 1, number of rows: 1, number of positions per row: 1, product range: ZFKDS(A) 2,5-EX, pitch: 5.08 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

Your advantages

- Defined contact force ensures that contact remains stable over the long term
- Clamping space opened by means of fixed screwdriver enables convenient conductor connection
- Angled connection enables multi-row arrangement on the PCB
- Satisfies the more stringent safety requirements of "Ex eb" protection according to IEC 60079-7 for potentially explosive areas
- The latching on the side enables various numbers of positions to be combined
- Two solder pins reduce the mechanical strain on the soldering spots

Commercial data

Item number	1732140
Packing unit	50 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	AA13
Product key	AAMMAA
Catalog page	Page 161 (C-1-2013)
GTIN	4046356280686
Weight per piece (including packing)	1.356 g
Weight per piece (excluding packing)	1.182 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) 2,5-EX
Product line	COMBICON Terminals M
Number of positions	1
Pitch	5.08 mm
Number of connections	1
Number of rows	1
Number of potentials	1
Pin layout	Linear pinning
Solder pins per potential	2

Electrical properties

Properties

Nominal current I_N	22 A
Nominal voltage U_N	137 V
Rated current / conductor cross section	22 A/2.5 mm ²

Ex data

Ex approval

Identification	0344 ^{Ex} 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	2.5 mm ²
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Conductor connection

Connection method	Spring-cage connection
Conductor cross section rigid	0.2 mm ² ... 4 mm ²
Conductor cross section flexible	0.2 mm ² ... 2.5 mm ²
Stripping length	7 mm

Mounting

Mounting type	Wave soldering
Pin layout	Linear pinning

Material specifications

Material data - contact

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

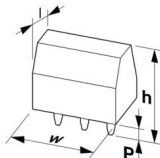
Material data - housing

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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Dimensions

Dimensional drawing	
Pitch	5.08 mm
Width [w]	6.08 mm
Height [h]	17.7 mm
Length [l]	16.85 mm
Installed height	14.2 mm
Solder pin length [P]	3.5 mm
Pin dimensions	0.8 x 0.8 mm

PCB design

Hole diameter	1.3 mm
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Environmental and real-life conditions

Ambient conditions

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

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Packaging specifications

Type of packaging	packed in cardboard
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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1732140>

 IECEx Approval ID: IECEx DEK 22.0001U				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	137 V	22 A	-	0.2 - 4
with pitch spacer	275 V	22 A	-	0.2 - 4

 ATEX Approval ID: PTB 06 ATEX 1073 U				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	137 V	22 A	-	0.2 - 4
with pitch spacer	275 V	22 A	-	0.2 - 4

 ATEX Approval ID: DEKRA 22ATEX0001U				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	137 V	22 A	-	0.2 - 4
with pitch spacer	275 V	22 A	-	0.2 - 4

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Classifications

ECLASS

ECLASS-13.0	27460101
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ETIM

ETIM 9.0	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
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%
EF3.0 Climate Change	
CO2e kg	0.014 kg CO2e

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