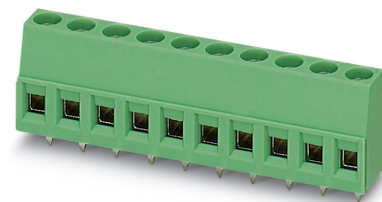


Order No.: 1730120

Type: MKDSP 1,5/ 2-5,08

PCB terminal block, Wave soldering, Screw connection with tension sleeve



The figure shows a 10-position version of the product

1 Main features



- | | | | |
|---------------------------|--------------------------------------|------------------------|---------------------|
| • No. of pos. | 2 | • Nominal current | 17.5 A |
| • Conductor cross section | 1.5 mm ² | • Nominal voltage | 400 V |
| • Color | green (6021) | • Connection direction | 0 ° |
| • Pitch | 5.08 mm | • Type of packaging | packed in cardboard |
| • Connection method | Screw connection with tension sleeve | | |

2 Your advantages

- ✓ Well-known connection principle allows worldwide use
- ✓ Low temperature rise, thanks to maximum contact force
- ✓ Allows connection of two conductors
- ✓ Quick and convenient testing using integrated test option
- ✓ The latching on the side enables various numbers of positions to be combined



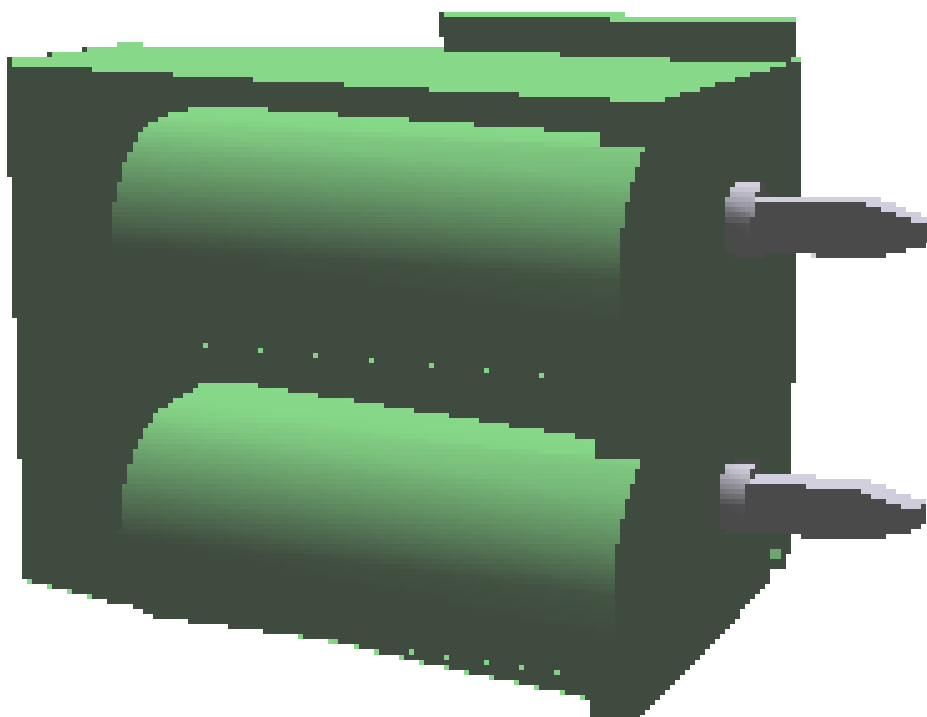
Make sure you always use the latest documentation.
It can be downloaded at: phoenixcontact.net/product/1730120

1730120 MKDSP 1,5/ 2-5,08**3 Table of contents**

1	Main features	1
2	Your advantages	1
3	Table of contents	2
4	3D model in PDF can be activated (Acrobat Reader only)	3
5	General Technical Data	4
5.1	item properties	4
5.2	Connection capacity	4
5.3	Connection capacity AWG	4
6	Material properties	4
6.1	Material of metal parts	4
6.2	Material of plastic parts	5
7	Dimensions	6
7.1	Dimensions for the product	6
7.2	Dimensions for PCB design	6
8	Application	6
8.1	General information	6
9	Packaging information	6
9.1	Processing notes	6
9.2	Temperature limit values	6
10	Mechanical tests	7
11	Electrical tests	8
11.1	Electrical data	8
12	Approvals / Certificates	9
13	Commercial Data	10
14	Accessories	10

1730120 MKDSP 1,5/ 2-5,08

4 3D model in PDF can be activated (Acrobat Reader only)



1730120 MKDSP 1,5/ 2-5,08**5 General Technical Data****5.1 item properties**

Order No.	1730120
Type	MKDSP 1,5/ 2-5,08
Product type	PCB terminal block
Range of articles	MKDSP 1,5
Pitch	5.08 mm
Range of positions	2...12
Number of positions	2
Number of levels	1
Number of connections	2
Number of potentials	2
Connection method	Screw connection with tension sleeve
Screw thread	M3
Drive form screw head	Slotted (L)
Mounting type	Wave soldering
Connection direction of the conductor to the PCB	0 °
Pin layout	Linear pinning
Solder pins per potential	1
Type	PC termination block

5.2 Connection capacity

Conductor cross section, solid	0.14 mm ² ... 2.5 mm ²
Conductor cross section, flexible	0.14 mm ² ... 1.5 mm ²
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm ² ... 1.5 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve	0.25 mm ² ... 1.5 mm ²
2 conductors with same cross section, solid	0.14 mm ² ... 1 mm ²
2 conductors with same cross section, stranded	0.14 mm ² ... 0.75 mm ²
2 conductors with same cross section, stranded, with ferrule without plastic sleeve	0.25 mm ² ... 0.5 mm ²
2 conductors with the same cross section flexible with TWIN ferrule and plastic sleeve	0.5 mm ² ... 1 mm ²
Stripping length	7 mm
Tightening torque	0.5 Nm ... 0.6 Nm

5.3 Connection capacity AWG

Conductor cross section AWG	26 ... 14
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6 Material properties**6.1 Material of metal parts**

Note	WEEE/RoHS-compliant, whisker-free acc. to IEC 60068-2-82/JEDEC JESD 201
Contact material	Cu alloy

1730120 MKDSP 1,5/ 2-5,08

Terminal point surface	Tin (5 - 7 µm Sn)
Soldering area surface	Tin (5 - 7 µm Sn)
Surface characteristics	

6.2 Material of plastic parts

	Housing
Color	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

1730120 MKDSP 1,5/ 2-5,08**7 Dimensions****7.1 Dimensions for the product**

Length	11.15 mm
Width	10.16 mm
Height (without solder pin)	13.8 mm
Total height	17.3 mm
Solder pin [P]	3.5 mm
Dimension a	5.08 mm

7.2 Dimensions for PCB design

Hole diameter	1.3 mm
Pin dimensions	0.9 x 0.9 mm

8 Application**8.1 General information**

Note on application	For safe conductor connection, always adhere to a defined tightening torque. Particularly in the case of PCB terminal blocks with two or three positions, the individual solder pin for each contact point cannot compensate for this. That is why the terminal blocks must be supported during conductor connection (held with one hand, support on the housing).
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9 Packaging information

Type of packaging	packed in cardboard
Pieces per package	50

9.1 Processing notes

Process	Wave soldering
Specification	Following IEC 61760-1:2006-04
Specification	Following IEC 60068-2-54:2006-04

9.2 Temperature limit values

Ambient temperature (assembly)	
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1730120 MKDSP 1,5/ 2-5,08

10 Mechanical tests

1730120 MKDSP 1,5/ 2-5,08**11 Electrical tests****11.1 Electrical data**

Rated current / conductor cross section	17.5 A / 1.5 mm ²
Rated insulation voltage (III/2)	400 V
Rated surge voltage (III/2)	4 kV
Contact resistance	
Degree of pollution	2

1730120 MKDSP 1,5/ 2-5,08

12 Approvals / Certificates

CSA 	Voltage [V]	Current [A]	Cross section [AWG]	Cross section [mm ²]
Usegroup B				
	300 V	10 A	28 - 14	-
Usegroup D				
	300 V	10 A	28 - 14	-
IECEE CB Scheme 	Voltage [V]	Current [A]	Cross section [AWG]	Cross section [mm ²]
	250 V	22 A	-	2.5
EAC 				
cULus Recognized 	Voltage [V]	Current [A]	Cross section [AWG]	Cross section [mm ²]
Usegroup B				
	300 V	10 A	30 - 14	-
Usegroup D				
	300 V	10 A	30 - 14	-
SEV 	Voltage [V]	Current [A]	Cross section [AWG]	Cross section [mm ²]
	250 V	22 A	-	2.5

1730120 MKDSP 1,5/ 2-5,08**13 Commercial Data**

Order No.	1730120
Type	MKDSP 1,5/ 2-5,08
Pieces per package	50
Net weight	2.73 g
GTIN	4017918026226
	Information that applies locally, see link on page 1
Country of origin	Information that applies locally, see link on page 1

14 Accessories

Description	Order No.	Type
Actuation tool, for ST terminal blocks, insulated, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip	1205053	SZS 0,6X3,5
	0804293	SK 5,08/3,8:FORTL.ZAHLEN
Insertion bridge for connectors with 5.0 mm or 5.08 mm pitch	1733169	EBP 2- 5
	0201647	RPS
	0201744	MPS-MT
	1718207	ST-MKDSP 3/5
	1301355	SPB 10-MKDSP