

PZK 3191

12010.0
PZK 3191/2/2,50 LG

- 2.5 mm pitch
- 2 to 12 Poles
- Impulse voltage resistance of 1.25 kV
- Solder connection



PRODUCT DESCRIPTION

The PZK 3191 series from Conta-Clip is a range of tension-spring connection PCB terminal blocks designed for compact and reliable wire-to-board connections. These terminals feature a 2.5 mm pitch and are available in configurations ranging from 2 to 12 poles, with widths of 5.0 mm to 32.0 mm, respectively. They support conductor cross-sections from 0.08 mm² to 1.0 mm² for rigid wires and up to 0.5 mm² for stranded wires with ferrules. The terminals are rated for a maximum current of 9 A and a voltage of 130 V, with an impulse voltage resistance of 1.25 kV, making them suitable for applications requiring high electrical performance. They feature a solder connection type with a 45° PCB-to-wire connection angle, ensuring secure and vibration-resistant terminations. Constructed from flame-retardant polyamide 6.6 (UL 94 V-0), these terminal blocks offer durability and compliance with international safety standards.

The PZK 3191 series is ideal for use in industrial control systems, automation equipment, and power distribution modules, where space-saving and reliable connections are essential. The tension-spring connection system allows for quick and tool-free wiring, enhancing assembly efficiency and reducing labour costs. The compact design facilitates easy integration into dense PCB layouts and enclosures. With certifications including UL 1059, CSA 22.2 No.158, and VDE, the PZK 3191 series meets international safety standards, making it suitable for global applications in demanding environments. Whether for new designs or retrofitting existing systems, these terminal blocks provide engineers with a dependable solution for dense and durable PCB interconnections.

TECHNICAL DATA

GENERAL DATA

Type	PCB terminal
Pitch	2.5 mm
Colour	Light grey
Number of poles	2
Approvals	UL, cUL, VDE

RATINGS

Rated current	9 A
Rated voltage	130 V
Rated cross section	0.5 mm ²
Rated impulse voltage	1.25 kV
Overvoltage category	III
Contamination degree	3

DIMENSIONS

Length	12.2 mm
Width	7 mm
Height	11.6 mm
Width left	2.7 mm
Width right	1.8 mm
Drillhole diameter	1.1 mm
Diameter of the connection pin	0.8 mm
Length of pin	4 mm

CONNECTION DATA

Connector type/principle	Spring clamp
Number of levels	1
Angle of PCB/wire connection	45°/135° (diagonally upwards)
Type of attachment to PCB	Connecting contact
Electrical connection type to PCB	Solder
Cross section single wire from	0.08 mm ²
Cross section single wire to	1 mm ²
Cross section stranded wire from	0.14 mm ²
Cross section stranded with ferrule to	0.14 mm ²
Cross section stranded wire to	0.5 mm ²
Cross section stranded with ferrule from	0.14 mm ²
Rated wire cross section to (AWG)	20
Rated wire cross section from (AWG)	28
Stripping length	5 mm

MATERIALS

Housing material	Polyamide 6.6
Flammability class	UL94-V0
Operating temperature from	-30 °C
Operating temperature to	105 °C
Main spring	Stainless steel
Solder lug	Copper alloy

APPROVALS

UL test standard	UL 1059
Rated voltage UL	150 V

Rated current UL	4 A
cUL test standard	CSA 22.2 No.158
Rated voltage cUL	150 V
Rated current cUL	4 A
VDE test standard	DIN EN 60998
Rated voltage VDE	130 V
Rated current VDE	9 A

Recommended wave solder duration max	4 s
Recommended wave solder duration min	3 s
Recommended wave soldering temperature	265 °C
Tariff code	85369010
Pack size	50
Weight	0.9 g
Connection cycles acc. to standard	10
Country of origin	QU
Current creepage resistance	CTI 600
Glow wire flammability index (GWFI)	GWFI 850
Glow wire ignition temperature (GWIT)	GWIT 775
GWFI after-glow time	30 s
GWIT exposure time	5 s
Insulation resistance	1*10 ¹³ Ω x cm



