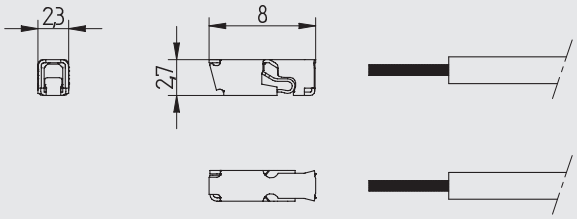
LED - Light and connection technology

SMD-Terminal block Pico

46.110



SMD-Terminal block Pico with push wire contacts and contact opening function

without insulating housing

1 pole - 46.110.1001.48

Funnel-shaped wire insertion channel for easy wire insertion

Direct insertion of solid and stranded, tinned wire ends and finely stranded conductors by using the contact opening function

Contact opening function - also for release of already inserted wires

Mounting and wiring position: PCB top side

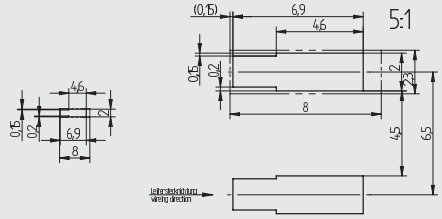
Machine-compatible "tape-and-reel" packaging

Fixing: Lead-free reflow soldering according to DIN EN 610760-1, section 6

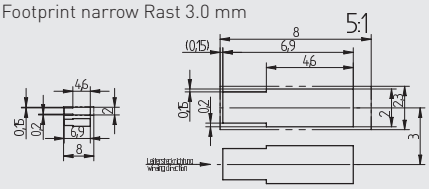
Material: CrNi / CuSn
Clamping spring material: CrNi
Contact material: CuSN
Contact surface: hot-dipped tinned

Note: Terminal without insulation housing!
Protection against contact when using voltage> extra-low voltage (SELV, PELV) must be ensured in the application.

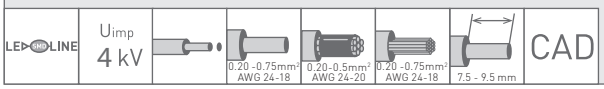
Footprint Rast 6.5 mm (630 V)



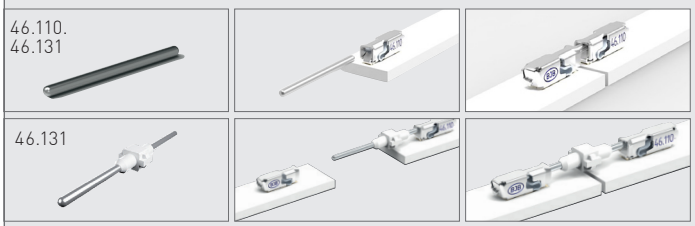
Footprint narrow Rast 3.0 mm



Packaging data 46.110.1001.48	
Weight per piece	0.1 g
Pieces per coil - Tape and Reel	6.000
Reel width	16 mm
Pitch distance	4 mm
Reel diameter	330 mm - 13"
Weight per reel	1.3 kg
Number of reels per carton	18
Number of SMD terminal blocks per carton	108.000
Weight per carton	24.3 kg
Carton dimensions (LxWxH)	400 x 355 x 365 mm
Cartons per pallet	12
Pieces per pallet	1.296.000



Accessories:
SMD Pico-B2B-connector. For connection of LED modules.



Tool for contact opening
To open contacts for use of finely stranded wires or for release of already inserted wires.

46.110.U801.89

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General technical information

NEW

46.110

Connection data	
Connection technology	Push wire contacts
Solid wires	0.20 - 0.75 mm², AWG 24-18
Stranded, tinned wires	0.20 - 0.5 mm², AWG 24-20
Stranded wires	0.20 - 0.75 mm², AWG 24-18
Strip length	7.5 - 9.5 mm
Conductor entry angle to the PCB	0°
Wire release function by	Contact opening tool

Pull-out force according to DN 60999-1	
0.2 mm²	min. 10 N
0.34 mm²	min. 15 N
0.5 mm²	min. 20 N
0.75 mm²	min. 30 N
Insertion force	max. 10 N

Geometrical data	
Pin spacing	6.5 mm / 0.16 inch
Width	2.3 mm / 0.15 inch
Height	2.7 mm / 0.16 inch
Depth	8 mm / 0.52 inch

Material data	
Insulating material group	-
Insulating material	-
PTI	-
Flammability class, based on UL 94	-
Clamping spring material	CrNi
Contact material	CuSn
Contact surface	hot-dipped tinned

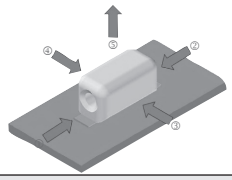
Mechanical data	
Mounting position	PCB top side
Mounting type	Lead-free reflow soldering

Temperature data	
Marginal temperatures	-40 °C to + 150 °C
Ambient temperature	-40 °C to + 105 °C

Rated data according to IEC / EN 60947-7-4 (IEC/EN 60664-1). The data are based on the exemplary grid dimension of 6.5 mm.	
Rated voltage (III / 3)	320 V
Rated impulse voltage (III / 3)	4 kV
Rated voltage (III / 2)	320 V
Rated impulse voltage (III / 2)	4 kV
Rated voltage (II / 2)	630 V
Rated impulse voltage (II / 2)	4 kV
Rated current	9 A

Rated data according to UL 1977	
Rated voltage UL 1977	630 V
Rated current UL 1977	USR:9 A
	CNR: 6 A, AWG 24
	CNR: 9 A, AWG 18

Country specific certificates	
VDE ENEC	IEC 606947-7-4: 2019-10, IEC 60947-7-4:2019
UL c UL us	1977

Shear forces according to IEC 62137-1-2: 2007. These values are maximum values that apply only for impuls, not for continuous load.	
Direction 1 shear force along	50
Direction 2 shear force along	50
Direction 3 shear force across	30
Direction 4 shear force across	30
Direction 5 pull-off force	30