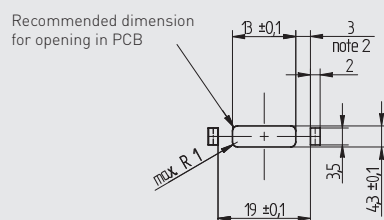


Note 1: Maximum thickness of PCB and luminaire heat sink shall not exceed 3.6 mm.

General note: It is recommended to make an electrical connection between both poles of each polarity on the solder pad.



Note 2: The minimum creepage distance has to be guaranteed, depends on the application.

SMD-Push through terminal block with push wire contacts

1 pole - 46.121.1002.50

Direct insertion of solid and stranded, tinned wire ends

Wires can be released by twisting and pulling the wire simultaneously.

Mounting and wiring position: PCB bottom side

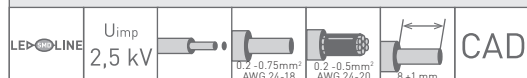
Ballast and PCB terminal block on one level

Machine-compatible "tape-and-reel" packaging

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

Material: Housing: PPA, white
Contact material: CuNi
Contact surface: hot-dip tinned

Packaging data 46.121.1002.50	
Weight per piece	tbc
Pieces per coil	1.400
Coil diameter	15"
Weight per coil	tbc
Number of coils per carton	10
Number of SMD terminal blocks per carton	14.000
Weight per carton	11.79 kg
Carton dimensions (LxWxH)	400 x 405 x415 mm



LED - Light and connection technology

SMD-Push through terminal block (400 V - Rast 5.25)
General technical information

Connection data

Connection technology	Push wire contacts
Solid wires	0.2 - 0.75 mm ² , AWG 24-18
Stranded, tinned wires	0.2 - 0.5 mm ² , AWG 24-20
Strip length	8 +1 mm
Conductor entry angle to the PCB	0 - 10°
Wire release function by	Twisting and Pulling

Pull-out force according to DN 60999-1

0.2 mm ²	min. 10 N
0.34 mm ²	min. 15 N
0.5 mm ²	min. 20 N
0.75 mm ²	min. 30 N
Insertion force	max. 10 N

Geometrical data

Pin spacing	5.25 mm / 0.206 inch
Width	5.2 mm / 0.204 inch
Height	7.5 mm / 0.295 inch
Depth	21.7 mm / 0.85 inch
Reel diameter of tape-and-reel packaging	381 mm (15")
Reel width	32 mm
Pitch distance	8 mm
Packaging unit tape-and-Reel	1.400 / 2.800
Packaging unit cardboard	14.000

Material data

Insulating material group	I
Insulating material	PPA, white
PTI	600
Flammability class, based on UL UL 94	V0
Contact material	CuNi
Contact surface	hot-dipped tinned

Mechanical data

Mounting position	PCB bottom side
Mounting type	Lead-free reflow soldering

Temperature data

Marginal temperatures	-40 °C to + 150 °C
Ambient temperature	-40 °C to + 125 °C
T-classification according to IEC 60998-1 para. 12	120°

Rated data according to IEC / EN 60947-7-4 (IEC/EN 60664-1)
for PCB type FR4 1.0 mm

Rated voltage (III / 3)	200 V
Rated impulse voltage (III / 3)	2.5 kV
Rated voltage (III / 2)	250 V
Rated impulse voltage (III / 2)	2.5 kV
Rated voltage (II / 2)	400 V
Rated impulse voltage (II / 2)	2.5 kV
Rated current	9 A

Rated data according to IEC / EN 60947-7-4 (IEC/EN 60664-1)
for PCB type IMS

Rated voltage (III / 3)	63 V
Rated impulse voltage (III / 3)	2.5 kV
Rated voltage (III / 2)	160 V
Rated impulse voltage (III / 2)	2.5 kV
Rated voltage (II / 2)	320 V
Rated impulse voltage (II / 2)	2.5 kV
Rated current	9 A

Rated data according to UL 1977

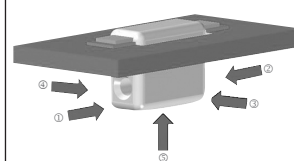
Rated voltage UL 1977	600 V
Rated current UL 1977	9 A

Country specific certificates

VDE ENEC	EN 60947
UL	cURus, File No. E-365006

Shear forces according to
IEC 62137-1-2: 2007.

These values are maximum values that apply only for impuls, not for continuous load.



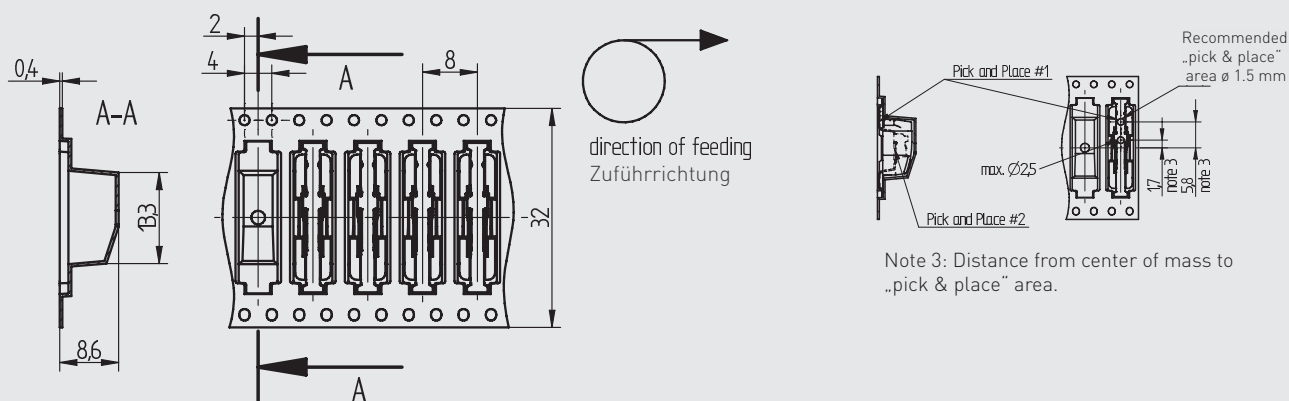
Direction 1 shear force along	100
Direction 2 shear force along	80
Direction 3 shear force across	20
Direction 4 shear force across	20
Direction 5 pull-off force	20

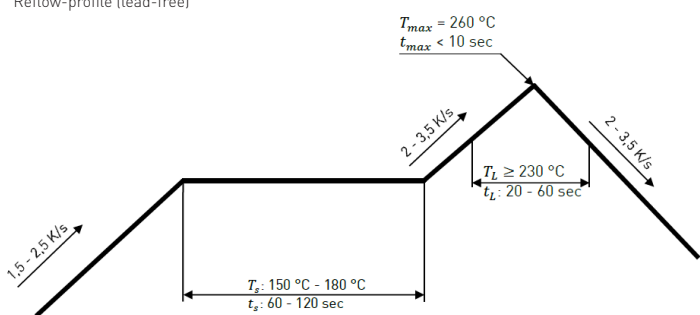
Instructions for soldering process

Suitable for leadfree-reflow-profiles according to DIN EN 61760-1 respective DIN EN 60068-2-58 up to peak-temperature of max. 260°C.

Due to different application-specific parameters (component arrangement and alignment, soldering system, solder paste), it is recommended to use test runs to determine a suitable profile under production conditions.

Depending on the SMD soldering process and associated parameters a minor discoloration might occur. However, this will not influence the functionality.



Storage time	Solderability up to 6 months when stored between -5°C and +40°C and rel. humidity between 10...60% r. H. After a storage time of 6 months, solderability has to be checked according to J-STD-002D or DIN EN 60068-2-58:2016.
max. allowed number of reflow-processes	3
Reflow-profile	<p>Reflow-profile (lead-free)</p> 
Solderability	Solderability of components is checked by wetting test according to J-STD-002D
Assembly method	SMD, according to drawing
Recommended solder stencil thickness	100 - 150 µm (recommendation BJB 150)