Data Sheet | Item Number: 2065-100/998-403

SMD PCB terminal block; push-button; 0.75 mm²; Pin spacing 6.5 mm; 1-pole; Push-in CAGE CLAMP®; in tape-and-reel packaging; Without housing; silver-colored

https://www.wago.com/2065-100/998-403

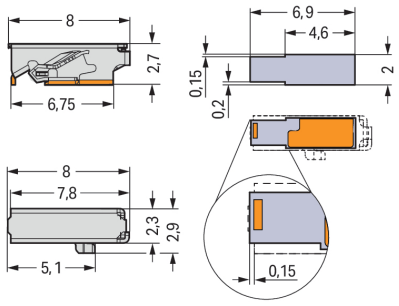




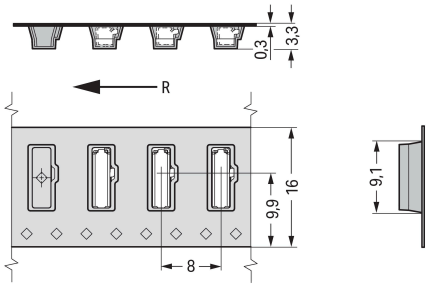
Color: silver-colored



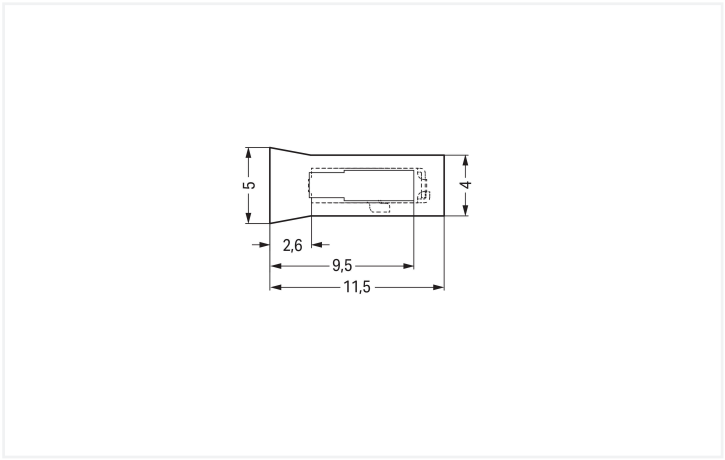




Dimensions in mm



Dimensions in mm
R = feed direction



Dimensions in mm
Required space for operating tool

PCB terminal block, 2065 Series, Push-in CAGE CLAMP®

Our PCB terminal block (item number 2065-100/998-403) is the ideal way to connect conductors quickly and securely. You can rely on proven safety with these PCB terminal blocks, perfect for a host of applications when designing your devices. Ensure that the strip lengths are between 7.5 and 9.5 mm when connecting conductors to this PCB terminal block. Featuring one conductor terminal along with Push-in CAGE CLAMP®, this product delivers reliable performance. Push-in CAGE CLAMP® connection technology is ideal for connecting all conductor types. Solid and fine-stranded conductors with ferrules can be plugged in without needing to use any tools—all thanks to its pluggable design. The dimensions are (2.9 x 2.7 x 8) mm (width x height x depth). Depending on the conductor type, this PCB terminal block is ideal for conductor cross sections ranging from 0.2 mm² to 0.75 mm².

The contact surface is coated with tin. A push-button is used to operate this PCB terminal block. The PCB terminal block is designed for SMD soldering. Insert the conductor at an angle of 0°..

In terms of size, the 2065 Series focuses on the essentials and boasts an elegant design. A contact frame and spring – that's everything required to reliably connect solid and fine-stranded conductors. The silver rectangular contact with its seamless tunnel cover and rounded edges makes it particularly robust. The terminal block is also extremely slim, saving space on the PCB and reducing on-board shadowing. The conductor entry is slanted upward to make wiring easier. The frame's openings not only allow termination of fine-stranded conductors via the clamping unit, they also allow a clear view of the technology behind it.

Notes

General safety information	**NOTICE: Observe installation and safety instructions!** **To be sold only with installation instructions!**
Safety Information	**Notice: Terminal block without insulation housing! Protection against accidental contact must be provided at voltages higher than low voltages (e.g., SELV/PELV) for the relevant application.**
Note	The ratings are based on an example pin spacing of 6.5 mm. The layout must meet the requirements of the insulation coordination standard EN/IEC 60664-1 and applicable end product standards.

Electrical data

Ratings per		IEC/EN 60664-1	
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	-	320 V	630 V
Rated impulse withstand voltage	-	4 kV	4 kV
Rated current	-	9 A	9 A

Ratings	
Approvals per	UL 1977
Rated voltage	600 V
Rated current	9 A

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Connection Data

Clamping units	1
Total number of potentials	1
Number of connection types	1
Number of levels	1

Connection 1

Connection technology	Push-in CAGE CLAMP®
Actuation type	Push-button
Solid conductor	0.2 … 0.75 mm² / 24 … 18 AWG
Fine-stranded conductor	0.2 … 0.75 mm² / 24 … 18 AWG
Strip length	7.5 … 9.5 mm / 0.3 … 0.37 inches
Conductor connection direction to PCB	0 °
Pole number	1

Physical data

Pin spacing	6.5 mm / 0.256 inches
Width	2.9 mm / 0.114 inches
Height	2.7 mm / 0.106 inches
Depth	8 mm / 0.315 inches
Reel diameter of tape-and-reel packaging	330 mm
Tape width	16 mm

PCB contact

PCB contact	SMD
Solder pin arrangement	over the entire terminal strip (in-line)
Number of solder pins per potential	1

Material data

Note (material data)	Information on material specifications can be found here
Color	silver-colored
Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Copper alloy
Contact Plating	Tin
Weight	0.1 g

Environmental requirements

Limit temperature range	-60 … +120 °C

Environmental Testing

Test specification: Railway applications – Rolling stock – Electronic equipment	DIN EN 50155 (VDE 0115-200):2022-06
Test procedure: Railway applications – Rolling stock equipment – Vibration and shock tests	DIN EN 61373 (VDE 0115-0106):2011-04
Spectrum/Mounting location	Service life test, Category 1, Class A/B
Functional test with noise-like oscillations	Test passed according to Section 8 of the standard
Frequency	f_1 = 5 Hz to f_2 = 150 Hz
Acceleration	0.101g (highest test level used for all axes)
Test duration per axis	10 min.
Test directions	X, Y and Z axes
Monitoring of contact faults and interruptions	Passed
Voltage drop measurement before and after each axis	Passed

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Environmental Testing

Simulated service life test through increased levels of noise-like oscillations	Test passed according to Section 9 of the standard
Frequency	f_1 = 5 Hz to f_2 = 150 Hz
Acceleration	0.572g (highest test level used for all axes)
Test duration per axis	5 h
Test directions	X, Y and Z axes
Extended testing: Monitoring of contact faults and interruptions	Passed
Extended testing: Voltage drop measurement before and after each axis	Passed
Shock test	Test passed according to Section 10 of the standard
Shock pulse form	Half sine
Acceleration	5g (highest test level used for all axes)
Shock duration	30 ms
Number of shocks (per axis)	3 pos. und 3 neg.
Test directions	X, Y and Z axes
Extended testing: Monitoring of contact faults and interruptions	Passed
Extended testing: Voltage drop measurement before and after each axis	Passed
Vibration and shock stress for rolling stock equipment	Passed

Commercial data

PU (SPU)	31800 (2650) pcs
Packaging type	Box
Country of origin	CH
GTIN	4055143665469
Customs tariff number	85369010000

Product Classification

UNSPSC	39121409
eCl@ss 10.0	27-14-11-06
eCl@ss 9.0	27-14-11-06
ETIM 9.0	EC001284
ETIM 10.0	EC001284
ECCN	NO US CLASSIFICATION

Environmental Product Compliance

RoHS Compliance Status	Compliant,No Exemption

Approvals / Certificates

General approvals

Approval	Standard	Certificate Name
CB DEKRA Certification B.V.	EN 60947-7-4	NL-63702
CB DEKRA Certification B.V.	IEC 60998	NL-63703
KEMA/KEUR DEKRA Certification B.V.	EN 60947-7-4	71-112513

General approvals

KEMA/KEUR DEKRA Certification B.V.	EN 60998	71-112514
UR Underwriters Laboratories Inc.	UL 1977	UL-CA-2125131-1

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Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
Railway WAGO GmbH & Co. KG	-	Z00004397.000
UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance
2065-100/998-403

Documentation

Safety Data Sheet

Handling and Safety Instructions of PCB Terminal Blocks with Push-In Cage Clamp	pdf 393.90 KB	

Additional Information

Technical Section	03.04.2019	pdf 2027.26 KB

CAD/CAE-Data

CAD data

2D/3D Models
2065-100/998-403

CAE data

ZUKEN Portal
2065-100/998-403

PCB Design

Symbol and Footprint via SamacSys
2065-100/998-403

Symbol and Footprint via Ultra Librarian
2065-100/998-403

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1 Compatible Products

1.1 Optional Accessories

1.1.1 Board-to-board link

1.1.1.1 Board-to-board link



Item No.: 2065-131
Board-to-Board Link; Pin spacing 6.5 mm; Length: 15.6 mm; silver-colored



Item No.: 2065-133
Board-to-Board Link; Pin spacing 6.5 mm; Length: 17.6 mm; silver-colored

1.1.2 Tool

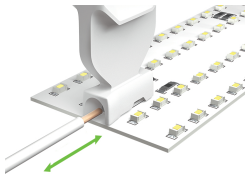
1.1.2.1 Operating tool



Item No.: 2065-189
Operating tool; made of insulating material; white

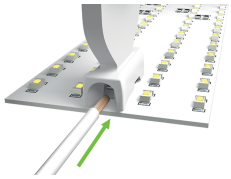
Installation Notes

Conductor termination



Push-in CAGE CLAMP® variant: Insert fine-stranded conductors and remove all conductor types via operating tool. Solid conductors can also be terminated by simply pushing them in.

Conductor termination



The 2065-189 Operating Tool's funneled conductor entry securely guides all conductor types into the Push-in CAGE CLAMP®.