

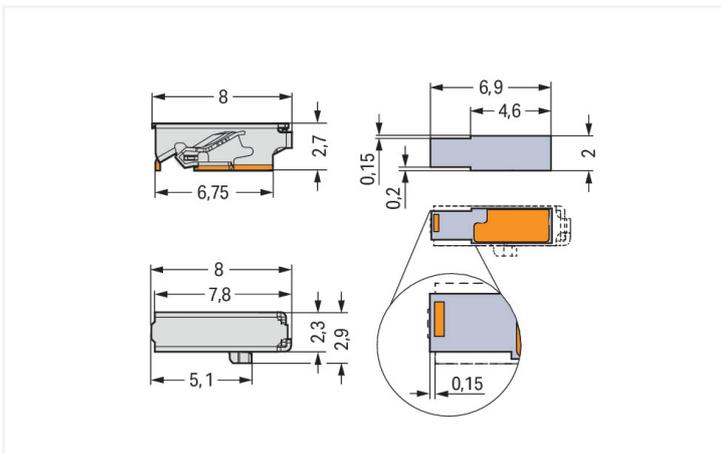
Data Sheet | Item Number: 2065-100/998-403

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

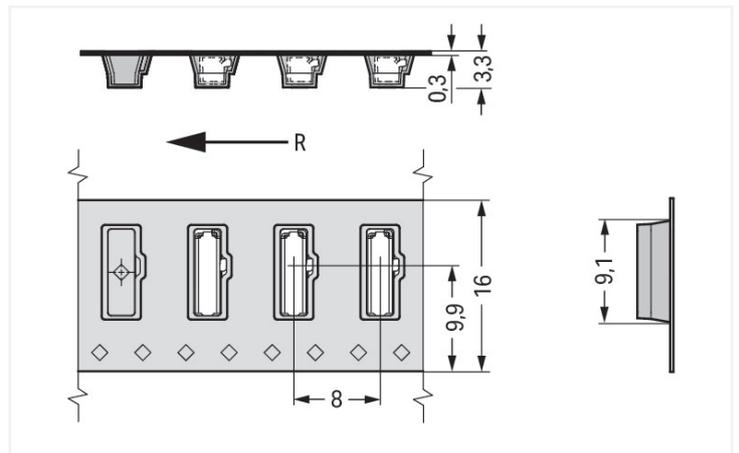
<https://www.wago.com/2065-100/998-403>



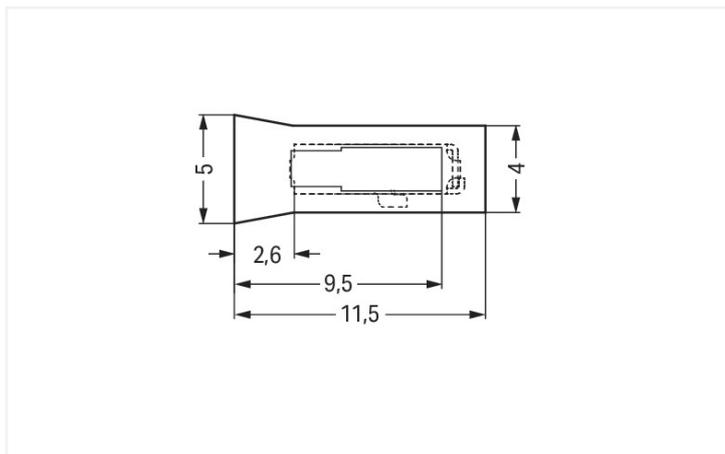
Color: ■ silver-colored



Dimensions in mm



Dimensions in mm
R = feed direction



Dimensions in mm

Required space for operating tool

PCB terminal block, 2065 Series, push-button

Quick and easy connections are guaranteed with this PCB terminal block (item number 2065-100/998-403). You can rely on tried and tested safety with these PCB terminal blocks, perfect for a host of applications when designing your devices. Rated current and voltage are key factors to consider when choosing a PCB terminal block, as they indicate how the product can be used. This product has a rated voltage of 320 V and a rated current of 9 A. Strip lengths must be between 7.5 mm and 9.5 mm when connecting conductors to this PCB terminal block. This product incorporates one conductor terminal and utilizes Push-in CAGE CLAMP®. Push-in CAGE CLAMP® connection technology is ideal for connecting all conductor types. Solid and fine-stranded conductors with ferrules can be inserted without the need for tools—all thanks to its pluggable design. The dimensions are 2.9 x 2.7 x 8 mm (width x height x depth). This PCB terminal block is suitable for conductor cross sections ranging from 0.2 mm² to 0.75 mm². It has one level. The single potential can connect one pole using one clamping point. The contacts are made of copper alloy and the clamping spring is made of chrome-nickel spring steel (CrNi). Tin is used for coating the contact surfaces. This PCB terminal block is operated with a push-button. The PCB terminal block is designed for SMD soldering. The conductor is designed to be inserted at an angle of 0°.

Notes

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			Ratings	
Overvoltage category	III	III	II	Approvals per	UL 1977
Pollution degree	3	2	2	Rated voltage	600 V
Nominal voltage	-	320 V	630 V	Rated current	9 A
Rated surge voltage	-	4 kV	4 kV		
Rated current	-	9 A	9 A		

Connection data

Clamping units	1	Connection 1	
Total number of potentials	1	Connection technology	Push-in CAGE CLAMP®
Number of connection types	1	Actuation type	Push-button
Number of levels	1	Solid conductor	0.2 ... 0.75 mm ² / 24 ... 18 AWG
		Fine-stranded conductor	0.2 ... 0.75 mm ² / 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
Fire load	0 MJ
Weight	0.1 g

Environmental requirements

Limit temperature range	-60 ... +120 °C	Environmental Testing	
		Test specification:	DIN EN 50155 (VDE 0115-200):2022-06
		Railway applications – Rolling stock – Electronic equipment	
		Test procedure:	DIN EN 61373 (VDE 0115-0106):2011-04
		Railway applications – Rolling stock equipment – Vibration and shock tests	

Environmental Testing

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	$f_1 = 5 \text{ Hz}$ to $f_2 = 150 \text{ Hz}$
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
Simulated service life test through increased levels of noise-like oscillations	Test passed according to Section 9 of the standard
Frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 150 \text{ Hz}$
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 8.0	EC001284
ECCN	NO US CLASSIFICATION

Environmental Product Compliance

RoHS Compliance Status Compliant, No Exemption

Approvals / Certificates

General approvals **Declarations of conformity and manufacturer's declarations**



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

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

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 ↓

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

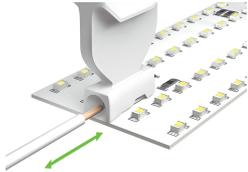


Item No.: 2065-189

Operating tool; made of insulating material; white

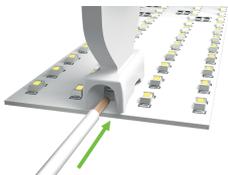
Installation Notes

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®.