

Data Sheet | Item Number: 252-109

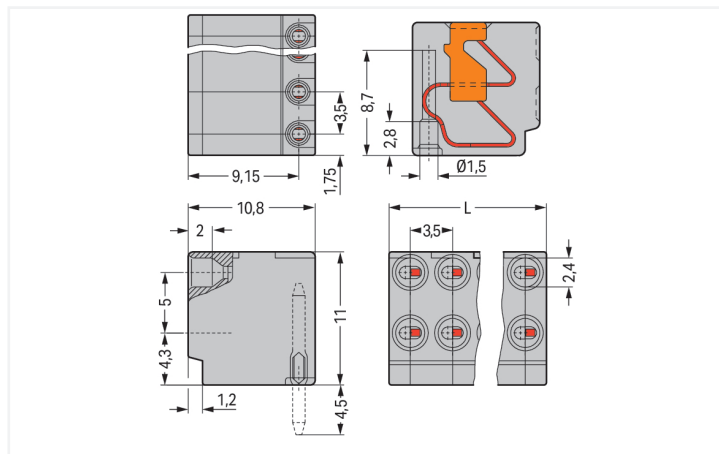
2-conductor female connector; push-button; PUSH WIRE®; 0.8 mm Ø; Pin spacing 3.5 mm; 9-pole; for solder pin strip; gray

<https://www.wago.com/252-109>



Color: ■ gray

Similar to illustration



Dimensions in mm

L = pole no. x pin spacing

Pluggable pcb terminal block, 252 Series, with 3.5 mm pin spacing

Pluggable pcb terminal block (item number 252-109) simplifies electrical installations. Ensure that the strip lengths are between 6 mm and 7 mm when connecting conductors to pluggable pcb terminal block. This product incorporates one conductor terminal and utilizes PUSH WIRE®. Our reliable PUSH WIRE® connection offers the fastest method for clamping conductors. It utilizes the conductor's stiffness to overcome the clamping spring's contact force. The dimensions are 31.5 x 11 x 10.5 mm (width x height x depth). Depending on the type of conductor, pluggable pcb terminal block is ideal for conductor cross sections ranging from 0.14 mm² to 0.5 mm². Up to nine potentials / nine poles can be connected to this terminal strip using eighteen clamping points on one level. The clamping spring is made of a Copper alloy, the gray housing is made of polyamide (PA66) for insulation, and the contacts are made of electrolytic copper (ECu). The contact surface is coated with tin.

Notes

Variants:

Other pole numbers

Direct marking

Other versions (or variants) can be requested from WAGO Sales or configured at <https://configurator.wago.com/>.

Electrical data

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

Approvals per	UL 1059		
Use group	B	C	D
Rated voltage	300 V	-	300 V
Rated current	2 A	-	2 A

Connection data

Clamping units	18
Total number of potentials	9
Number of connection types	1
Number of levels	1

Connection 1

Connection technology	PUSH WIRE®
Actuation type	Push-button
Solid conductor	0.14 ... 0.5 mm ² / 26 ... 20 AWG
Conductor diameter	0.4 ... 0.8 mm / 26 ... 20 AWG
Strip length	6 ... 7 mm / 0.24 ... 0.28 inches
Conductor connection direction to PCB	0°
Pole number	9

Physical data

Pin spacing	3.5 mm / 0.138 inches
Width	31.5 mm / 1.24 inches
Height	11 mm / 0.433 inches
Depth	10.5 mm / 0.413 inches

Plug-in connection

Contact type (pluggable connector)	Female connector/socket
Connector (connection type)	for PCB
Plugging without loss of pin spacing	Yes
Mating direction to the rail-mount terminal block	90 °

Material data

Note (material data)	Information on material specifications can be found here
Color	gray
Material group	I
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	V0
Clamping spring material	Copper alloy
Contact material	Electrolytic copper (E _{Cu})
Contact Plating	Tin
Fire load	0.108 MJ
Weight	4.1 g

Environmental requirements

Limit temperature range	-60 ... +105 °C
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Commercial data

Product Group	4 (Printed Circuit Connectors)
PU (SPU)	200 (50) pcs
Packaging type	Box
Country of origin	PL
GTIN	4045454039776
Customs tariff number	85366990990

Product Classification

UNSPSC	39121409
eCl@ss 10.0	27-44-04-01
eCl@ss 9.0	27-44-04-01
ETIM 9.0	EC002643
ETIM 8.0	EC002643
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	Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 60947	NTR NL-7110	EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
CCA DEKRA Certification B.V.	EN 60947-7-4	NTR NL-7320	UK-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
cURus Underwriters Laboratories Inc.	UL 1059	E45172			
ENEC DEKRA Certification B.V.	EN 60947	2160584.26			

Downloads

Environmental Product Compliance

Compliance Search	
Environmental Product Compliance 252-109	↓

Documentation

Additional Information			
Technical Section	03.04.2019	pdf 2027.26 KB	↓

CAD/CAE-Data

CAD data	
2D/3D Models 252-109	↓

CAE data	
EPLAN Data Portal 252-109	↓
ZUKEN Portal 252-109	↓

PCB Design

Symbol and Footprint via SamacSys 252-109	↓
Symbol and Footprint via Ultra Librarian 252-109	↓

1 Compatible Products

1.1 System counterpart

1.1.1 Solder pin



Item No.: 243-131

THT single pin; silver-colored

1.2 Required Accessories

1.2.1 Male connector

1.2.1.1 Solder pin



Item No.: 243-131

THT single pin; silver-colored

1.3 Optional Accessories

1.3.1 Marking

1.3.1.1 Marking strip



Item No.: 210-332/350-202

Marking strips; as a DIN A4 sheet; MARKED; 1-16 (240x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white



Item No.: 210-332/350-204

Marking strips; as a DIN A4 sheet; MARKED; 17-32 (240x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white



Item No.: 210-332/350-206

Marking strips; as a DIN A4 sheet; MARKED; 33-48 (240x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white

1.3.2 Tool

1.3.2.1 Operating tool



Item No.: 210-719

Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

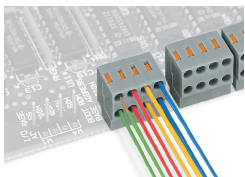


Item No.: 210-647

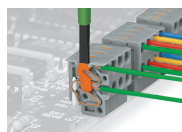
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; multicoloured

Installation Notes

Conductor removal

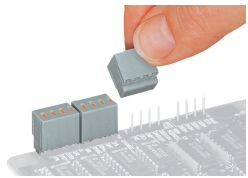


Conductor termination directly on the PCB or wiring prior to mounting on PCB – 252 Series



Removing a conductor – 252 Series

Installation



Plugging a compact PCB connector – 252 Series