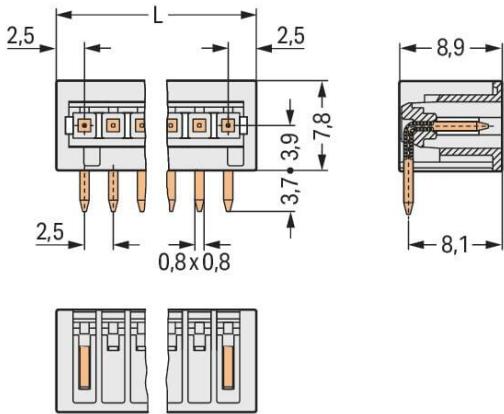
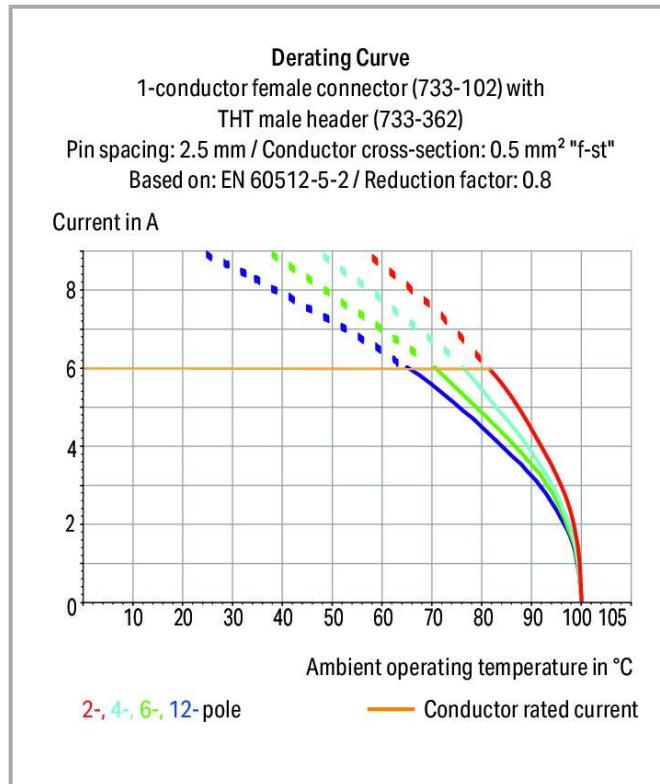


i Picture differs from the item.

Color:



Dimensions in mm

$$L = (\text{pole no.} + 1) \times \text{pin spacing}$$

Subject to changes. Please also observe the further product documentation!

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## Item description

- 100% protected against mismatching; only mating halves with the same pole number can be connected
- Coding option available

## Data Notes

### Safety information

The *MCS – MULTI CONNECTION SYSTEM* includes connectors without breaking capacity in accordance with DIN EN 61984. When used as intended, these connectors must not be connected /disconnected when live or under load. When used as intended, these connectors must not be connected/disconnected when live or under load. The circuit design should ensure header pins, which can be touched, are not live when unmated.

### Variants:

Other pole numbers  
3.8 mm pin projection for male headers with straight solder pins  
Gold-plated or partially gold-plated contact surfaces  
Other versions (or variants) can be requested from WAGO Sales or configured at <https://configurator.wago.com/>.

## Electrical data

### Ratings per IEC/EN

Ratings per	IEC/EN 60664-1
Nominal voltage (III/3)	80 V
Rated impulse voltage (III/3)	2.5 kV
Rated voltage (III/2)	160 V
Rated impulse voltage (III/2)	2.5 kV
Nominal voltage (II/2)	320 V
Rated surge voltage (II/2)	2.5 kV
Rated current	6 A
Legend (ratings)	(III / 2) $\triangleq$ Overvoltage category III / Pollution degree 2

### Ratings per UL

Approvals per	UL 1059
Rated voltage UL (Use Group B)	150 V
Rated current UL (Use Group B)	4 A

Subject to changes. Please also observe the further product documentation!

## Ratings per CSA

Approvals per	CSA
Rated voltage CSA (Use Group B)	150 V
Rated current CSA (Use Group B)	4 A

## Connection data

Total number of potentials	9
Number of connection types	1
Number of levels	1

## Connection 1

Pole number	9
-------------	---

## Physical data

Pin spacing	2.5 mm / 0.098 inches
Width	25 mm / 0.984 inches
Height	11.5 mm / 0.453 inches
Height from the surface	7.8 mm / 0.307 inches
Depth	8.9 mm / 0.35 inches
Solder pin length	3.7 mm
Solder pin dimensions	0.8 x 0.8 mm
Drilled hole diameter with tolerance	1.1 <sup>(±0.1)</sup> mm

## Mechanical Data

Variable coding	Yes
Anti-rotation protection	Yes

## Plug-in connection

Contact type (pluggable connector)	Male connector/plug
Connector (connection type)	for PCB
Mismating protection	Yes
Plugging without loss of pin spacing	No
Mating direction to the PCB	0 °

Subject to changes. Please also observe the further product documentation!

## PCB contact

PCB contact	THT
Solder pin arrangement	over the entire male connector (in-line)
Number of solder pins per potential	1

## Material data

### Note (material data)

Information on material specifications can be found here

Color	light gray
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Contact material	Electrolytic copper (E <sub>Cu</sub> )
Contact plating	Tin
Fire load	0.021 MJ
Weight	1.4 g

## Environmental requirements

Limit temperature range	-60 ... +100 °C
Processing temperature	-35 ... +60 °C

## Commercial data

Product Group	3 (Multi Conn. System)
eCl@ss 10.0	27-44-04-02
eCl@ss 9.0	27-44-04-02
ETIM 8.0	EC002637
ETIM 7.0	EC002637
PU (SPU)	200 pcs
Packaging type	box
Country of origin	DE
GTIN	4045454998967
Customs tariff number	85366930000

Subject to changes. Please also observe the further product documentation!

## Environmental Product Compliance

RoHS Compliance Status

Compliant, No Exemption

## Approvals / Certificates

### General approvals

Logo	Approval	Additional Approval Text	Certificate name
	CCA DEKRA Certification B.V.	EN 61984	2169534.01
	CCA DEKRA Certification B.V.	IEC 61984	NL-31141
	CSA DEKRA Certification B.V.	C22.2	1465035
	UL UL International Germany GmbH	UL 1977	E45171
	UL Underwriters Laboratories Inc.	UL 1059	E45172

### Declarations of conformity and manufacturer's declarations

Logo	Approval	Additional Approval Text	Certificate name
	Railway WAGO GmbH & Co. KG	-	Railway Ready

### Approvals for marine applications

Logo	Approval	Additional Approval Text	Certificate name
	ABS American Bureau of Shipping	-	19- HG1869876- PDA

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DNV  
DNV GL SE

TAE000016Z

LR  
Lloyds Register

IEC 61984

96/20035  
(E5)

## Counterpart

**Item no.733-109**1-conductor female connector; CAGE CLAMP®; 0.5 mm<sup>2</sup>; Pin spacing 2.5 mm; 9-pole; 100% protected against mismatching; 0,50 mm<sup>2</sup>; light gray[www.wago.com/733-109](http://www.wago.com/733-109)**Item no.733-109/037-000**1-conductor female connector; CAGE CLAMP®; 0.5 mm<sup>2</sup>; Pin spacing 2.5 mm; 9-pole; 100% protected against mismatching; Lateral locking levers; 0,50 mm<sup>2</sup>; light gray[www.wago.com/733-109/037-000](http://www.wago.com/733-109/037-000)

## Optional accessories

### Coding

Coding

**Item no.: 733-330**

Coding key; snap-on type; white

[www.wago.com/733-330](http://www.wago.com/733-330)**Item no.: 733-331**

Coding key; snap-on type; black

[www.wago.com/733-331](http://www.wago.com/733-331)

## Downloads

### Documentation

### Additional Information

2019 Apr 3

pdf  
2.1 MB

Download

## CAD/CAE-Data

### CAD data

2D/3D Models 733-369

URL

Download

### PCB Design

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Symbol and Footprint via Ultra Librarian 733-369

URL

Download

CAx data for your PCB design, consisting of "schematic symbols and PCB footprints", allow easy integration of the WAGO component into your development environment.

Supported formats:

- Accel EDA 14 & 15
- Altair
- Altium 6 to current version
- Autodesk Fusion 360
- Cadence Allegro
- DesignSpark
- Eagle Libraries
- KiCad
- Mentor Graphics
- BoardStation
- Mentor Graphics Design Architect
- Mentor Graphics Design
- Expedition 99 and 2000
- OrCAD 9.X PCB and Capture
- PADS PowerPCB 3, 3.5, 4.X, and 5.X
- PADS PowerPCB and PowerLogic 3.0
- PCAD 2000, 2001, 2002, 2004, and 2006
- Pulsonix 8.5 or newer
- STL
- 3D STEP
- TARGET 3001!
- View Logic ViewDraw
- Quadcept
- Zuken CadStar 3 and 4
- Zuken CR-5000 and CR-8000
- Zuken eCADSTAR 2020 and 2021Zuken CR-5000 and CR-8000

PCB Component Libraries (EDA), PCB CAD Library Ultra Librarian

Symbol and Footprint via SamacSys 733-369

URL

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Supported formats:

- 3D (stp)
- Altium
- CADSTAR
- Capture
- CircuitStudio
- CR-5000
- CR-8000
- DEHDL
- DesignSpark PCB
- DesignSpark PCB PRO
- DipTrace
- EAGLE
- Easy-PC
- EasyEDA
- eCADSTAR
- KiCad
- OrCAD\_Allegro16
- PADS
- Proteus
- Pulsonix
- Quadcept
- SOLIDWORKS PCB
- TARGET 3001!
- xDX Designer
- Xpedition

PCB Component Libraries (EDA), PCB CAD Library SamacSys Electronic Component Search Engine

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#### CAE data

ZUKEN Portal 733-369

[URL](#) [Download](#)

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#### Asset Administration Shell

Asset Administration Shell 733-369

[URL](#) [Download](#)

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## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 733-369

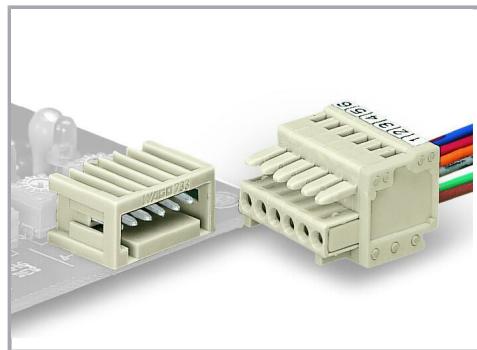
URL

Download

THT male header; 0.8 x 0.8 mm solder pin; angled; 100% protected against  
mismating; Pin spacing 2.5 mm; 9-pole; light gray

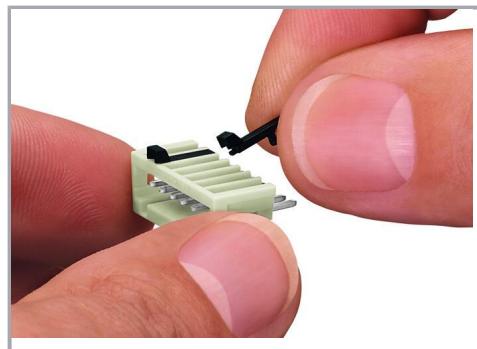
## Installation Notes

### Mismating protection



Male headers and female connectors are  
100% protected against misconnection.  
Only mating halves with the same pole number  
can be connected.

### Coding



Coding a male header – fitting coding key(s).

## Product family

### MCS MICRO

[Show all products from the family](#)

Subject to changes. Please also observe the further product documentation!

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