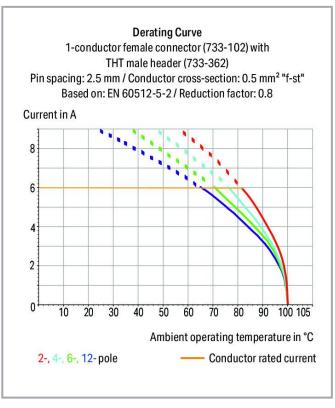
THT male header; 0.8 x 0.8 mm solder pin; straight; 100% protected against mismating; Pin spacing 2.5 mm; 3-pole; light gray



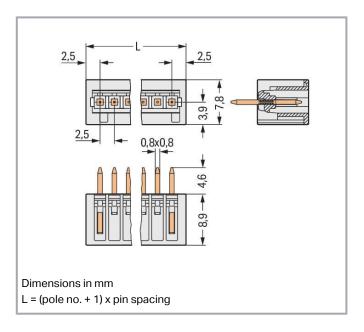
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 $\label{thm:continuity} \textbf{Subject to changes. Please also observe the further product documentation!}$ 





### Item description

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

# Data Notes

Safety	

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

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

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80 V
2.5 kV
160 V
2.5 kV
320 V
2.5 kV
6 A
(III / 2) ≙ 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

# 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	3
Number of connection types	1
Number of levels	1

## Connection 1

Pole number	3

# Physical data

Pin spacing	2.5 mm / 0.098 inches
Width	10 mm / 0.394 inches
Height	13.5 mm / 0.531 inches
Height from the surface	8.9 mm / 0.35 inches
Depth	7.8 mm / 0.307 inches
Solder pin length	4.6 mm
Solder pin dimensions	0.8 x 0.8 mm
Drilled hole diameter with tolerance	1.1 <sup>(+0.1)</sup> mm

 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$ 

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### **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	90 °

### **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	0.009 MJ
Weight	0.5 g

# **Environmental requirements**

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

### Commercial data

Product Group	3 (Multi Conn. System)

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eCl@ss 10.0	27-44-04-02
eCl@ss 9.0	27-44-04-02
ETIM 8.0	EC002637
ETIM 7.0	EC002637
ECCN	NO DATA
PU (SPU)	200 pcs
Packaging type	box
Country of origin	CN
GTIN	4050821035602
Customs tariff number	85366930000

# **Environmental Product Compliance**

RoHS Compliance Status Compliant, No Exemption

## Approvals / Certificates

## General approvals

Logo	Approval	Additional Approval Text	Certificate name
KEMA	CCA DEKRA Certification B.V.	EN 61984	2169534.01
	CCA DEKRA Certification B.V.	IEC 61984	NL-31141
<b>(1)</b>	CSA DEKRA Certification B.V.	C22.2	1465035
Al	UL UL International Germany GmbH	UL 1977	E45171
AI.	UL Underwriters Laboratories Inc.	UL 1059	E45172

# Declarations of conformity and manufacturer's declarations

	Railway	-	Railway
Logo	Approval	Additional Approval Text	name
			Certificate

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Ready

#### Approvals for marine applications

			Certificate
Logo Approval	Additional Approval Text	name	
ABS.	ABS American Bureau of Shipping	-	19- HG1869876- PDA
DNV DNVEDMAP	DNV DNV GL SE	-	TAE000016Z
DO LO THE AMERICAN STREET	<b>LR</b> Lloyds Register	IEC 61984	96/20035 (E5)

## Counterpart



# Item no.733-103

1-conductor female connector; CAGE CLAMP®; 0.5 mm²; Pin spacing 2.5 mm; 3-pole; 100% protected against mismating; 0,50 mm²; light gray

www.wago.com/733-103



### Item no.733-103/037-000

1-conductor female connector; CAGE CLAMP®; 0.5 mm²; Pin spacing 2.5 mm; 3-pole; 100% protected against mismating; Lateral locking levers; 0,50 mm²; light gray

www.wago.com/733-103/037-000

## Optional accessories

### Coding

Coding



Item no.: 733-330

Coding key; snap-on type; white

www.wago.com/733-330



Item no.: 733-331

Coding key; snap-on type; black

www.wago.com/733-331

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**URL** 

Download

# Downloads Documentation

#### Additional Information

Technical Section 2019 Apr 3 pdf Download Technical explanations 2.1 MB

#### CAD/CAE-Data

#### **CAD** data

2D/3D Models 733-333

URL Download

CAE data

EPLAN Data Portal 733-333 URL Download

ZUKEN Portal 733-333 URL Download

### PCB Design

Symbol and Footprint via Ultra Librarian 733-333

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

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

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- 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 733-333

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:

- 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

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- PADS
- Proteus
- Pulsonix
- Quadcept
- SOLIDWORKS PCB
- TARGET 3001!
- xDX Designer
- Xpedition

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

**Asset Administration Shell** 

Asset Administration Shell 733-333 URL Download

# **Environmental Product Compliance**

Compliance Search

Environmental Product Compliance 733-333 THT male header; 0.8 x 0.8 mm solder pin; straight; 100% protected against

mismating; Pin spacing 2.5 mm; 3-pole; light gray

URL Download

# **Installation Notes**

Mismating protection

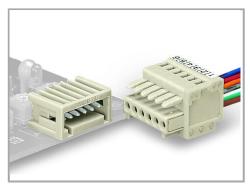
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Male headers and female connectors are 100% protected against mismating.
Only mating halves with the same pole number can be connected.

# Coding



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

# **Product family**

MCS MICRO

Show all products from the family

 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$