

**Data sheet | Item number: 733-338**

THT male header; 0.8 x 0.8 mm solder pin; straight; 100% protected against mismatching; Pin spacing 2.5 mm; 8-pole; light gray

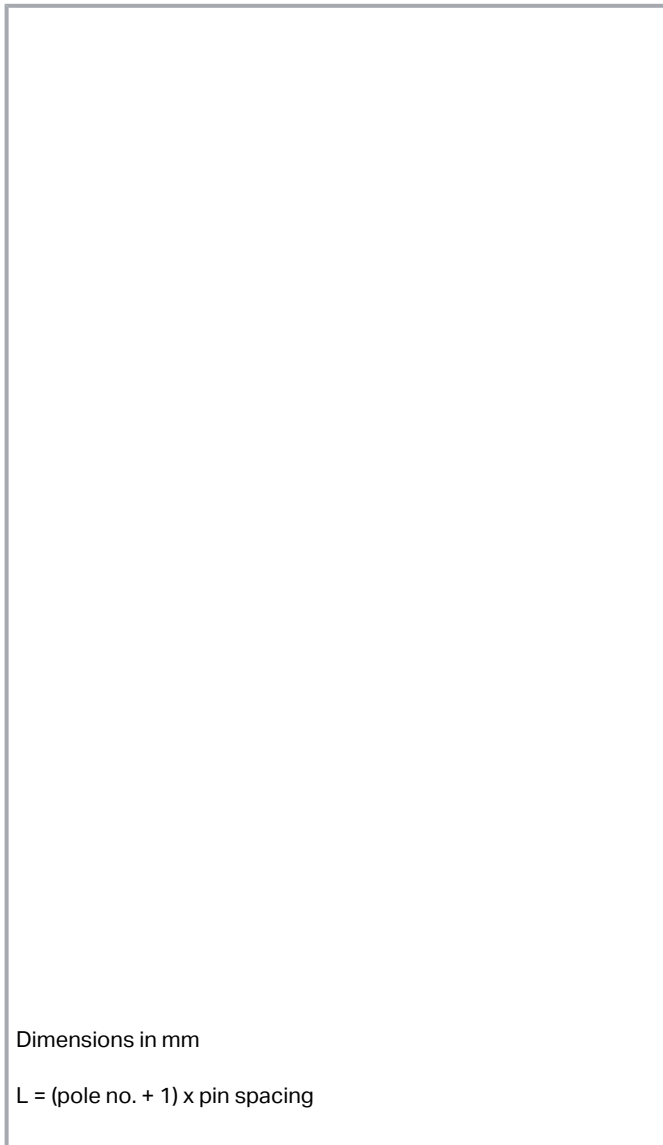
[www.wago.com/733-338](http://www.wago.com/733-338)



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

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Dimensions in mm

L = (pole no. + 1) x pin spacing

### 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

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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

### 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	8
Number of connection types	1
Number of levels	1

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## Connection 1

Pole number	8
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## Physical data

Pin spacing	2.5 mm / 0.098 inches
Width	22.5 mm / 0.886 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

## 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)	<a href="#">Information on material specifications can be found here</a>
Color	light gray
Material group	I

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Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Contact material	Electrolytic copper (E <sub>Cu</sub> )
Contact plating	Tin
Fire load	0.02 MJ
Weight	1.1 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	CN
GTIN	4050821035664
Customs tariff number	85366930000

### Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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### Approvals / Certificates

#### General approvals

Logo	Approval	Additional Approval Text	Certificate name
	<b>CCA</b> DEKRA Certification B.V.	EN 61984	2169534.01
	<b>CCA</b> DEKRA Certification B.V.	IEC 61984	NL-31141
	<b>CSA</b> DEKRA Certification B.V.	C22.2	1465035
	<b>UL</b>	UL 1977	E45171

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UL International Germany GmbH

**UR**

UL 1059

E45172

Underwriters Laboratories Inc.

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

Logo	Approval	Additional Approval Text	Certificate name
	<b>Railway</b> WAGO GmbH & Co. KG	-	Railway Ready

**Approvals for marine applications**

Logo	Approval	Additional Approval Text	Certificate name
	<b>ABS</b> American Bureau of Shipping	-	19-HG1869876-PDA
	<b>DNV GL</b> Det Norske Veritas, Germanischer Lloyd	-	TAE000016Z
	<b>LR</b> Lloyds Register	IEC 61984	96/20035 (E5)

**Counterpart****Item no.733-108**1-conductor female connector; CAGE CLAMP®; 0.5 mm<sup>2</sup>; Pin spacing 2.5 mm; 8-pole; 100% protected against mismatching; 0,50 mm<sup>2</sup>; light gray[www.wago.com/733-108](http://www.wago.com/733-108)**Item no.733-108/037-000**1-conductor female connector; CAGE CLAMP®; 0.5 mm<sup>2</sup>; Pin spacing 2.5 mm; 8-pole; 100% protected against mismatching; Lateral locking levers; 0,50 mm<sup>2</sup>; light gray[www.wago.com/733-108/037-000](http://www.wago.com/733-108/037-000)**Optional accessories****Coding**

Coding		
<b>Item no.: 733-330</b> Coding key; snap-on type; white		<a href="http://www.wago.com/733-330">www.wago.com/733-330</a>
<b>Item no.: 733-331</b> Coding key; snap-on type; black		<a href="http://www.wago.com/733-331">www.wago.com/733-331</a>

**Downloads****Documentation****Additional Information**

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## CAD/CAE-Data

### CAD data

2D/3D Models 733-338	URL	Download
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### CAE data

EPLAN Data Portal 733-338	URL	Download
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ZUKEN Portal 733-338	URL	Download
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### PCB Design

Symbol and Footprint 733-338	URL	Download
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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
- Altium 6 to current version
- 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

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- Quadcept
- Zuken CadStar 3 and 4
- Zuken CR-5000 and CR-8000

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

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## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 733-338

URL

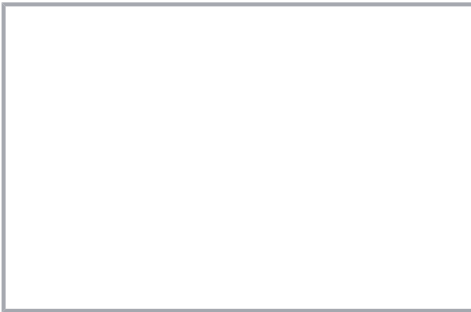
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## Installation Notes

### Mismatching protection



Male headers and female connectors are 100% protected against mismatching.

Only mating halves with the same pole number can be connected.

### Coding

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

## Product family

**MCS MICRO**

[Show all products from the family](#)

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