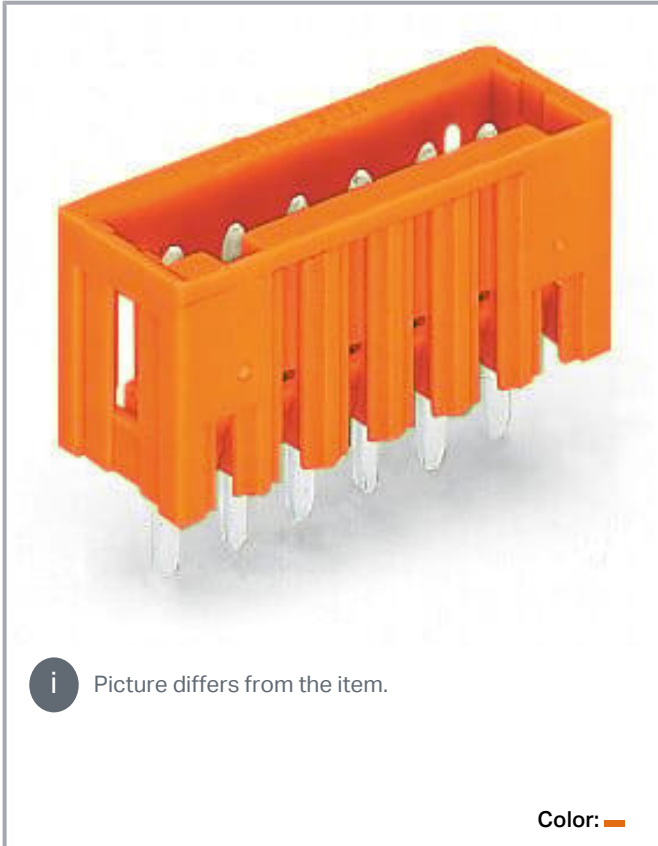


**Data sheet | Item number: 734-232**

THT male header; 1.0 x 1.0 mm solder pin; straight; 100% protected against mismatching; Pin spacing 3.81 mm; 2-pole; orange

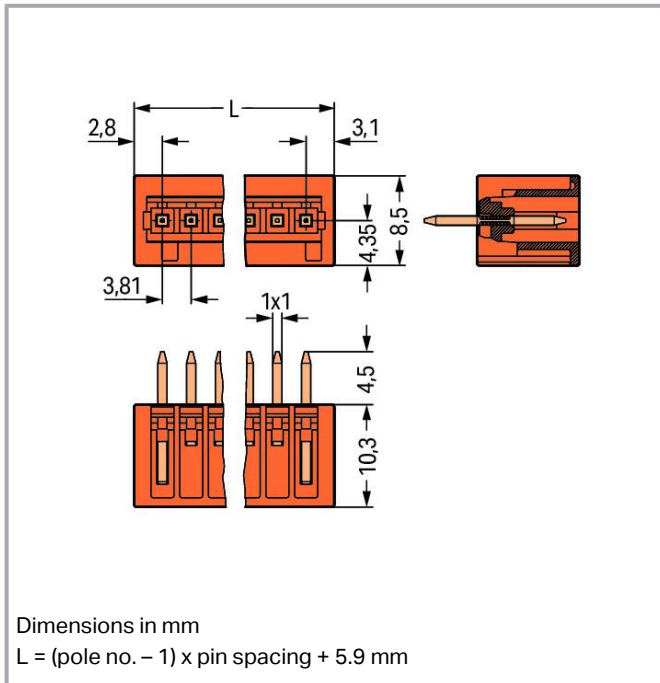
[www.wago.com/734-232](http://www.wago.com/734-232)



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

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### Item description

- Horizontal or vertical PCB mounting via straight or angled solder pins
- 100% protected against mismatching; only mating halves with the same number of poles can be connected together
- 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  
 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

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



### Ratings per IEC/EN

Ratings per	IEC/EN 60664-1
Nominal voltage (III/3)	160 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	10 A
Legend (ratings)	(III / 2) $\hat{=}$ Overvoltage category III / Pollution degree 2

### Ratings per UL

Approvals per	UL 1059
Rated voltage UL (Use Group B)	300 V
Rated current UL (Use Group B)	10 A
Rated voltage UL (Use Group D)	300 V
Rated current UL (Use Group D)	10 A

### Ratings per CSA

Approvals per	CSA
Rated voltage CSA (Use Group B)	300 V
Rated current CSA (Use Group B)	10 A
Rated voltage CSA (Use Group D)	300 V
Rated current CSA (Use Group D)	10 A

### Connection data

Total number of potentials	2
Number of connection types	1
Number of levels	1

### Connection 1

Pole number	2
-------------	---

### Physical data

Pin spacing	3.81 mm / 0.15 inches
Width	9.71 mm / 0.382 inches

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



Height	14.8 mm / 0.583 inches
Height from the surface	10.3 mm / 0.406 inches
Depth	8.5 mm / 0.335 inches
Solder pin length	4.5 mm
Solder pin dimensions	1 x 1 mm
Drilled hole diameter with tolerance	1.4 <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 °
Locking of plug-in connection	none

### 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	orange
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	0.011 MJ
Weight	0.6 g

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

## 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
ECCN	NO DATA
PU (SPU)	200 pcs
Packaging type	box
Country of origin	DE
GTIN	4044918847810
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>CB</b> DEKRA Certification B.V.	EN 61984	NL-54190
	<b>CCC</b> CQC	GB/T 13140.1	CQC03003003013
	<b>KEMA/KEUR</b> DEKRA Certification B.V.	EN 61984	71-105522
	<b>UL</b> Underwriters Laboratories Inc.	UL 1977	E 45171

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







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>DNV</b> DNV GL SE	-	TAE000016Z
	<b>LR</b> Lloyds Register	IEC 61984	96/20035 (E5)

Counterpart

	<b>Item no.734-202</b> 1-conductor female connector; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.81 mm; 2-pole; 100% protected against mismatching; 1,50 mm²; orange	<a href="http://www.wago.com/734-202">www.wago.com/734-202</a>
	<b>Item no.2734-202</b> 1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.81 mm; 2-pole; 100% protected against mismatching; 1,50 mm²; orange	<a href="http://www.wago.com/2734-202">www.wago.com/2734-202</a>
	<b>Item no.2734-202/031-000</b> 1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.81 mm; 2-pole; 100% protected against mismatching; clamping collar; 1,50 mm²; orange	<a href="http://www.wago.com/2734-202/031-000">www.wago.com/2734-202/031-000</a>
	<b>Item no.2734-202/037-000</b> 1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.81 mm; 2-pole; 100% protected against mismatching; Lateral locking levers; 1,50 mm²; orange	<a href="http://www.wago.com/2734-202/037-000">www.wago.com/2734-202/037-000</a>
	<b>Item no.734-202/037-000</b> 1-conductor female connector; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.81 mm; 2-pole; 100% protected against mismatching; Lateral locking levers; 1,50 mm²; orange	<a href="http://www.wago.com/734-202/037-000">www.wago.com/734-202/037-000</a>
	<b>Item no.734-562</b> THT female header; angled; Pin spacing 3.81 mm; 2-pole; 100% protected against mismatching; 0.9 x 0.9 mm solder pin; orange	<a href="http://www.wago.com/734-562">www.wago.com/734-562</a>

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



**Item no.734-502/037-000**

THT female header; straight; Pin spacing 3.81 mm; 2-pole; 100% protected against mismatching; Locking lever; 0.9 x 0.9 mm solder pin; orange

[www.wago.com/734-502/037-000](http://www.wago.com/734-502/037-000)



**Item no.734-502**

THT female header; straight; Pin spacing 3.81 mm; 2-pole; 100% protected against mismatching; 0.9 x 0.9 mm solder pin; orange

[www.wago.com/734-502](http://www.wago.com/734-502)



**Item no.734-562/037-000**

THT female header; angled; Pin spacing 3.81 mm; 2-pole; 100% protected against mismatching; Locking lever; 0.9 x 0.9 mm solder pin; orange

[www.wago.com/734-562/037-000](http://www.wago.com/734-562/037-000)

## Optional accessories

### Coding

#### Coding



**Item no.: 734-159**

Coding key; to be snapped above top level; black

[www.wago.com/734-159](http://www.wago.com/734-159)



**Item no.: 734-130**

Coding key; to be snapped above top level; white

[www.wago.com/734-130](http://www.wago.com/734-130)

## Downloads

### Documentation

#### Additional Information

Technical Section	2019 年4月3日	pdf	Download
Technical explanations		2.1 MB	

## CAD/CAE-Data

### CAD data

2D/3D Models 734-232	URL	Download
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### PCB Design

Symbol and Footprint via Ultra Librarian 734-232	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

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



- 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

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Symbol and Footprint via SamacSys 734-232

[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

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- 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 734-232	<a href="#">URL</a>	<a href="#">Download</a>
EPLAN Data Portal 734-232	<a href="#">URL</a>	<a href="#">Download</a>

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#### Asset Administration Shell

Asset Administration Shell 734-232	<a href="#">URL</a>	<a href="#">Download</a>
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### Environmental Product Compliance

#### Compliance Search

Environmental Product Compliance 734-232	<a href="#">URL</a>	<a href="#">Download</a>
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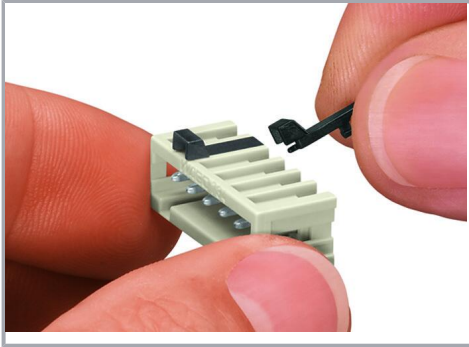
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THT male header; 1.0 x 1.0 mm solder pin; straight; 100% protected against mismatching; Pin spacing 3.81 mm; 2-pole; orange

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## Installation Notes

### Coding



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

## Product family

### MCS MINI

[Show all products from the family](#)

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

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