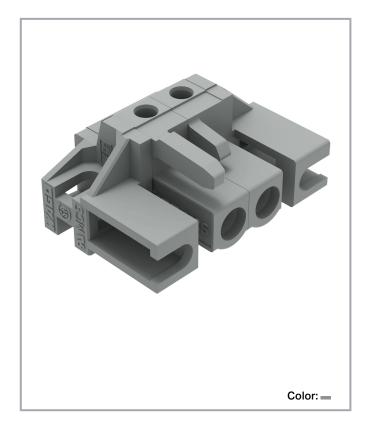
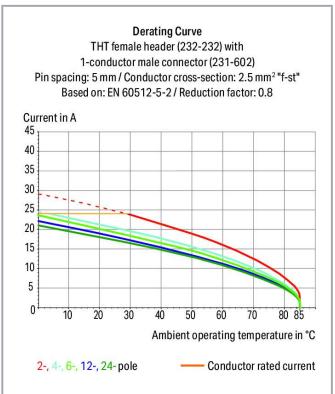
THT female header; angled; Pin spacing 5 mm; 2-pole; Spacer flange; 0.6 x 1.0 mm solder pin; gray

N/AGI

www.wago.com/232-232/047-000





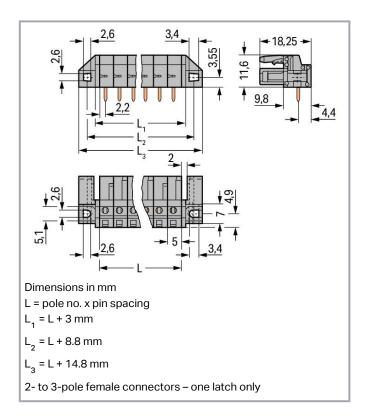
 $\label{thm:continuity} \textbf{Subject to changes. Please also observe the further product documentation!}$

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Item description

- Horizontal or vertical PCB mounting via straight or angled solder pins
- For board-to-board and board-to-wire connections
- Touch-proof PCB outputs
- Easy-to-identify PCB inputs and outputs
- With coding fingers

Data Notes

		_
Safety	inforn	nation

The <i>MCS – MULTI CONNECTION SYSTEM</i> 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

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

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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)	320 V
Rated impulse voltage (III/3)	4 kV
Rated voltage (III/2)	320 V
Rated impulse voltage (III/2)	4 kV
Nominal voltage (II/2)	630 V
Rated surge voltage (II/2)	4 kV
Rated current	12 A
Legend (ratings)	(III / 2) ≙ 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)	15 A
Rated voltage UL (Use Group D)	300 V
Rated current UL (Use Group D)	10 A

Ratings per UL 1977

Rated voltage (UL 1977)	600 V
Rated current UL 1977	15 A

Ratings per CSA

Approvals per	CSA
Rated voltage CSA (Use Group B)	300 V
Rated current CSA (Use Group B)	15 A
Rated voltage CSA (Use Group D)	300 V
Rated current CSA (Use Group D)	10 A

Connection data

Total number of potentials	2

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

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Number of connection types	1
Number of levels	1

Connection 1

Pole number 2

Physical data

24.8 mm / 0.976 inches
16.6 mm / 0.654 inches
11.6 mm / 0.457 inches
18.25 mm / 0.719 inches
5 mm
0.6 x 1 mm
1.3 ^(+0.1) mm

Mechanical data

Variable coding	Yes
Mounting type	Mounting flange
Mounting type	Flush feed-through mounting Panel mounting
Anti-rotation protection	Yes

Plug-in connection

Contact type (pluggable connector)	Female connector/socket
Connector (connection type)	for PCB
Mismating protection	No
Plugging without loss of pin spacing	No
Mating direction to the PCB	0°
Locking of plug-in connection	none

PCB contact

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

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

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Material data

Note (material data)	<pre> Information on material specifications can be found here ></pre>
Color	gray
Material group	l
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Contact material	Copper alloy
Contact plating	Tin
Fire load	0.095 MJ
Weight	2.8 g

Environmental requirements

Limit temperature range	-60 +85 °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)	100 pcs
Packaging type	box
Country of origin	DE
GTIN	4044918624510
Customs tariff number	85366990990

Environmental Product Compliance

RoHS Compliance Status	Compliant,No Exemption

Approvals / Certificates

General approvals

Logo Approval Additional Approval Text Certificate

Additional Approval Text

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CSADEKRA Certification B.V.

C22.2

UL 1977

1466354



UL Underwriters Laboratories Inc. UL 1059 E45172



UR Underwriters Laboratories Inc.

E45171

Certificate

Declarations of conformity and manufacturer's declarations

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

Approvals for marine applications

Logo	Approval	Additional Approval Text	name
ABS.	ABS American Bureau of Shipping	-	19- HG15869876- PDA
	BV Bureau Veritas S.A.	IEC 60998	11915/D0 BV
POPIZO PRODUCTION OF THE PRODUCTION OF T	DNV DNV GL SE	-	TAE000016Z

Counterpart



Item no.231-602

1-conductor male connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 2-pole; 2,50 mm²; gray

www.wago.com/231-602

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www.wago.com/232-232/047-000



Optional accessories

Testing and measuring

Testing accessories



Item no.: 231-661

Test plugs for female connectors; for 5 mm and 5.08 mm pin spacing; 2,50 mm²; light gray

www.wago.com/231-661

URL

Download

Downloads

Documentation

Additional Information

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

CAD/CAE-Data

CAE data

EPLAN Data Portal 232-232/047-000	URL	Download
EPLAN Data Portal 232-232/047-000	URL	Download

PCB Design

Symbol and Footprint via Ultra Librarian 232-232/047-000

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

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URL

Download

- 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 232-232/047-000

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

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- 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

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 232-232/047-000 THT female header; angled; Pin spacing 5 mm; 2-pole; Spacer flange; 0.6 x 1.0 mm solder pin; gray URL Download

Installation Notes

Application

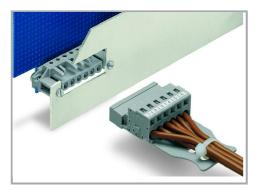
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The innovative flange design provides standard panel mounting options or various through-panel mounting configurations.

Depending on the type of application and flange, female headers can be used either for through-panel or flush mounted applications.

Product family

MCS MIDI Classic Show all products from the family

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