

# Data Sheet | Item Number: 231-138/001-000

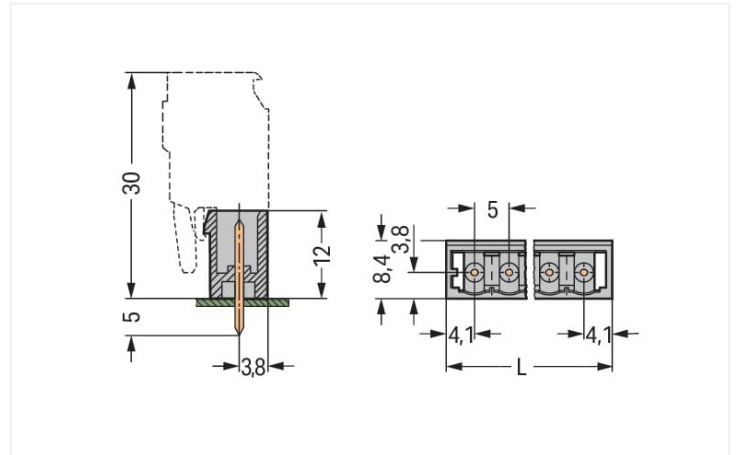
THT male header; 1.0 x 1.0 mm solder pin; straight; Pin spacing 5 mm; 8-pole; gray



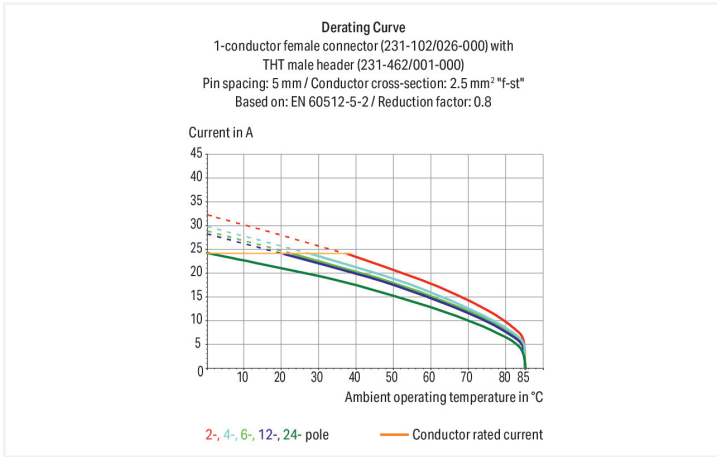
<https://www.wago.com/231-138/001-000>



Color: ■ gray



Dimensions in mm  
L = (pole no. - 1) x pin spacing + 8.2 mm



- Horizontal or vertical PCB mounting via straight or angled solder pins
- Pin cross-section: 1 x 1 mm
- With coding fingers

## 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 60664-1			Approvals per	UL 1059		
	III	III	II		Use group	B	C
Overvoltage category	III	III	II	Use group	B	C	D
Pollution degree	3	2	2	Rated voltage	300 V	-	300 V
Nominal voltage	320 V	320 V	630 V	Rated current	10 A	-	10 A
Rated surge voltage	4 kV	4 kV	4 kV				
Rated current	12 A	12 A	12 A				

Approvals per	UL 1977
Rated voltage	600 V
Rated current	10 A

Approvals per	CSA		
Use group	B	C	D
Rated voltage	300 V	-	300 V
Rated current	10 A	-	10 A

### Connection data

Total number of potentials	8
Number of connection types	1
Number of levels	1

### Connection 1

Pole number	8
-------------	---

### Physical data

Pin spacing	5 mm / 0.197 inches
Width	43.2 mm / 1.701 inches
Height	17 mm / 0.669 inches
Height from the surface	12 mm / 0.472 inches
Depth	8.4 mm / 0.331 inches
Solder pin length	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	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	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	0.089 MJ
Weight	2.5 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)	100 pcs
Packaging type	Box
Country of origin	DE
GTIN	4044918863377
Customs tariff number	85366990990

### Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
------------------------	-------------------------

### Approvals / Certificates

#### General approvals



Approval	Standard	Certificate Name
CB DEKRA Certification B.V.	IEC 61984	NL-39756/A1
CSA DEKRA Certification B.V.	C22.2	LR 18677-25
KEMA/KEUR DEKRA Certification B.V.	EN 61984	71-121453
UL Underwriters Laboratories Inc.	UL 1059	E45172
UR Underwriters Laboratories Inc.	UL 1977	E45171

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



Approval	Standard	Certificate Name
Railway WAGO GmbH & Co. KG	-	Railway Ready

### Approvals for marine applications



Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	-	19-HG1869876-PDA
BV Bureau Veritas S.A.	IEC 60998	11915/D0 BV
DNV GL Det Norske Veritas, Ger- manischer Lloyd	-	TAE000016Z

### Downloads

## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance  
231-138/001-000



## Documentation

### Additional Information

Technical Section

03.04.2019

pdf

1949.09 KB



## CAD/CAE-Data

### CAD data

2D/3D Models  
231-138/001-000



### CAE data

EPLAN Data Portal  
231-138/001-000



ZUKEN Portal  
231-138/001-000



## 1 Compatible Products

### 1.1 System counterpart

#### 1.1.1 Female connector/socket



**Item No.: 232-108/026-000**

1-conductor female connector, angled; CAGE CLAMP®; 2.5 mm<sup>2</sup>; Pin spacing 5 mm; 8-pole; 2,50 mm<sup>2</sup>; gray



**Item No.: 232-208/026-000**

1-conductor female connector, angled; CAGE CLAMP®; 2.5 mm<sup>2</sup>; Pin spacing 5 mm; 8-pole; 2,50 mm<sup>2</sup>; gray



**Item No.: 231-108/026-000**

1-conductor female connector; CAGE CLAMP®; 2.5 mm<sup>2</sup>; Pin spacing 5 mm; 8-pole; 2,50 mm<sup>2</sup>; gray



**Item No.: 231-108/027-000**

1-conductor female connector; CAGE CLAMP®; 2.5 mm<sup>2</sup>; Pin spacing 5 mm; 8-pole; clamping collar; 2,50 mm<sup>2</sup>; gray



**Item No.: 231-108/031-000**

1-conductor female connector; CAGE CLAMP®; 2.5 mm<sup>2</sup>; Pin spacing 5 mm; 8-pole; clamping collar; 2,50 mm<sup>2</sup>; gray



**Item No.: 231-108/037-000**

1-conductor female connector; CAGE CLAMP®; 2.5 mm<sup>2</sup>; Pin spacing 5 mm; 8-pole; Lateral locking levers; 2,50 mm<sup>2</sup>; gray



**Item No.: 231-108/125-000**

1-conductor female connector; CAGE CLAMP®; 2.5 mm<sup>2</sup>; Pin spacing 5 mm; 8-pole; Snap-in flange; 2,50 mm<sup>2</sup>; gray



**Item No.: 231-108/102-000**

1-conductor female connector; CAGE CLAMP®; 2.5 mm<sup>2</sup>; Pin spacing 5 mm; 8-pole; with integrated end plate; 2,50 mm<sup>2</sup>; gray



**Item No.: 2231-1108/327-000**

1-conductor female connector; lever; Push-in CAGE CLAMP®; 2.5 mm<sup>2</sup>; Pin spacing 5 mm; 8-pole; 2,50 mm<sup>2</sup>; gray



**Item No.: 2231-1108/038-000**

1-conductor female connector; lever; Push-in CAGE CLAMP®; 2.5 mm<sup>2</sup>; Pin spacing 5 mm; 8-pole; Lateral locking levers; 2,50 mm<sup>2</sup>; gray



**Item No.: 2231-108/026-000**

1-conductor female connector; push-button; Push-in CAGE CLAMP®; 2.5 mm<sup>2</sup>; Pin spacing 5 mm; 8-pole; 2,50 mm<sup>2</sup>; gray



**Item No.: 2231-108/031-000**

1-conductor female connector; push-button; Push-in CAGE CLAMP®; 2.5 mm<sup>2</sup>; Pin spacing 5 mm; 8-pole; clamping collar; 2,50 mm<sup>2</sup>; gray



**Item No.: 2231-108/037-000**

1-conductor female connector; push-button; Push-in CAGE CLAMP®; 2.5 mm<sup>2</sup>; Pin spacing 5 mm; 8-pole; Lateral locking levers; 2,50 mm<sup>2</sup>; gray



**Item No.: 2231-108/102-000**

1-conductor female connector; push-button; Push-in CAGE CLAMP®; 2.5 mm<sup>2</sup>; Pin spacing 5 mm; 8-pole; with integrated end plate; 2,50 mm<sup>2</sup>; gray



**Item No.: 231-2108/037-000**

2-conductor female connector; Push-in CAGE CLAMP®; 2.5 mm<sup>2</sup>; Pin spacing 5 mm; 8-pole; Lateral locking levers; 2,50 mm<sup>2</sup>; gray



**Item No.: 231-2108/026-000**

2-conductor female connector; Push-in CAGE CLAMP®; 2.5 mm<sup>2</sup>; Pin spacing 5 mm; 8-pole; with integrated end plate; 2,50 mm<sup>2</sup>; gray

### 1.2 Optional Accessories

## 1.2.1 Coding

### 1.2.1.1 Coding



**Item No.: 231-129**

Coding key; snap-on type; light gray

### 1.2.1.2 Intermediate plate

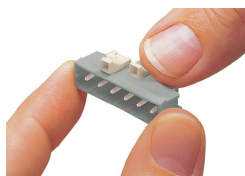


**Item No.: 231-500**

Spacer; for formation of groups; light gray

## Installation Notes

### Coding



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