THT female header; straight; Pin spacing 5.08 mm; 4-pole; 0.6 x 1.0 mm solder pin;

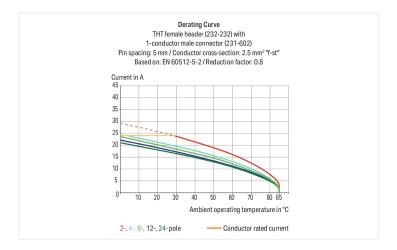
orange

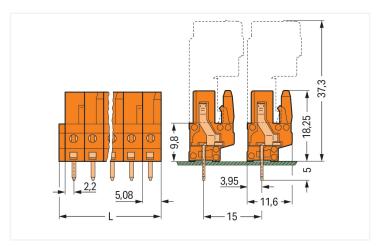
https://www.wago.com/232-164











Dimensions in mm

- L = (pole no. x pin spacing) + 1.5 mm
- 2- to 3-pole female connectors one latch only

- 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

N				
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Safety Information

Variants:

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.

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/.

Other pole numbers



Electrical data			
Ratings per	IE	C/EN 60664	-1
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	320 V	320 V	630 V
Rated surge voltage	4 kV	4 kV	4 kV
Rated current	12 A	12 A	12 A

Approvals per		UL 1059	
Use group	В	С	D
Rated voltage	300 V	-	300 V
Rated current	15 A	-	10 A

UL 1977
600 V
15 A

Approvals per		CSA	
Use group	В	С	D
Rated voltage	300 V	-	300 V
Rated current	15 A	-	10 A

Connection data		
Clamping units	4	
Total number of potentials	4	
Number of connection types	1	
Number of levels	1	

Connection 1	
Pole number	4

Physical data	
Pin spacing	5.08 mm / 0.2 inches
Width	21.82 mm / 0.859 inches
Height	23.25 mm / 0.915 inches
Height from the surface	18.25 mm / 0.719 inches
Depth	11.6 mm / 0.457 inches
Solder pin length	5 mm
Solder pin dimensions	0.6 x 1 mm
Drilled hole diameter with tolerance	1.3 ^(+0.1) mm

Mechanical data		
Variable coding	Yes	
Anti-rotation protection	Yes	

Plug-in connection	
Contact type (pluggable connector)	Female connector/socket
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 female connector (in-line)
Number of solder pins per potential	1

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Material data	
Note (material data)	
	<u>Information on material specifications can be found here</u>
Color	orange
Material group	I
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	V0
Contact material	Copper alloy
Contact Plating	Tin
Fire load	0.065 MJ
Weight	3.8 g

Environmental requirements			
Limit temperature range	-60 +85 °C	Environmental Testing (En	vironmental Conditions)
Processing temperature	-35 +60 °C	Test specification Railway applications – Rolling stock – Electronic equipment	DIN EN 50155 (VDE 0115-200):2022-06
		Test procedure Railway applications – Rolling stock equipment – Shock and vibration tests	DIN EN 61373 (VDE 0115-0106):2011-0
		Spectrum/Installation location	Service life test, Category 1, Class A/B
		Function test with noise-like vib	ration Test passed according to Section 8 of the standard
		Frequency	$f_1 = 5 \text{ Hz to } f_2 = 150 \text{ Hz}$ $f_1 = 5 \text{ Hz to } f_2 = 150 \text{ Hz}$
		Acceleration	0.101g (highest test level used for all axes) 0.572g (highest test level used for all axes) 5g (highest test level used for all axes)
		Test duration per axis	10 min. 5 h
		Test directions	X, Y and Z axes X, Y and Z axes X, Y and Z axes
		Monitoring for contact faults/int ons	errupti- Passed
		Voltage drop measurement befo after each axis	ore and Passed
		Simulated service life test throu ased levels of noise-like vibratio	
		Extended test scope: Monitoring tact faults/interruptions	g for con- Passed Passed
		Extended test scope: Voltage dr surement before and after each	
		Shock test	Test passed according to Section 10 of the standard
		Shock form	Half sine
		Shock duration	30 ms
		Number of shocks per axis	3 pos. und 3 neg.
		Vibration and shock stress for restock equipment	olling Passed

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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 9.0	EC002637
ETIM 8.0	EC002637
PU (SPU)	100 pcs
Packaging type	Box
Country of origin	DE
GTIN	4044918578707
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
KEMA/KEUR DEKRA Certification B.V.	EN 61984	71-121453
UL UL International Germany GmbH	UL 1977	E45171
UR Underwriters Laboratories	UL 1059	E45172

Declarations of conformity and manufacturer's declarations



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

Approvals for marine applications



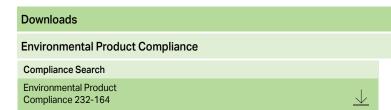


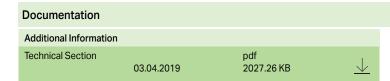


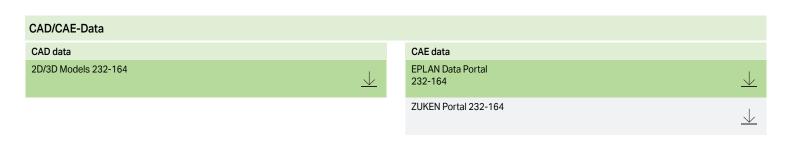
Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	-	19-HG15869876-PDA
DNV DNV GL SE	-	TAE000016Z
LR Lloyds Register	IEC 61984	96/20035 (E5)

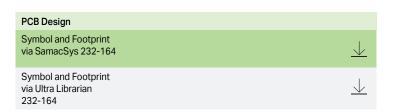
https://www.wago.com/232-164













https://www.wago.com/232-164



1.2 Optional Accessories

1.2.1 Test and measurement

1.2.1.1 Testing accessories



<u>Item No.: 231-661</u> Test plugs for female connectors; for 5 mm and 5.08 mm pin spacing; 2,50 mm²; light gray

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