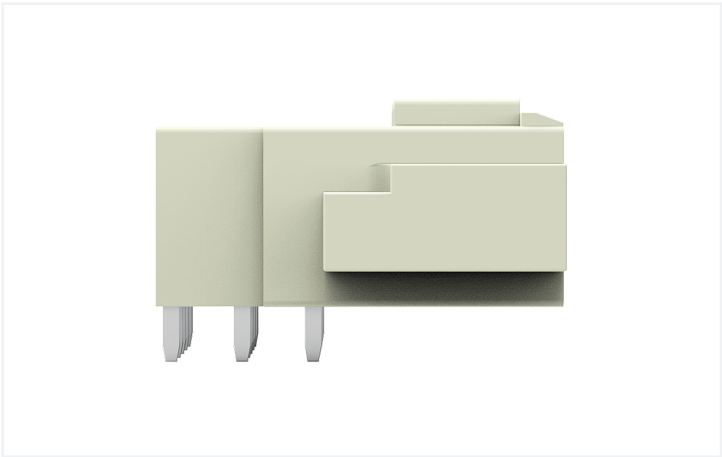
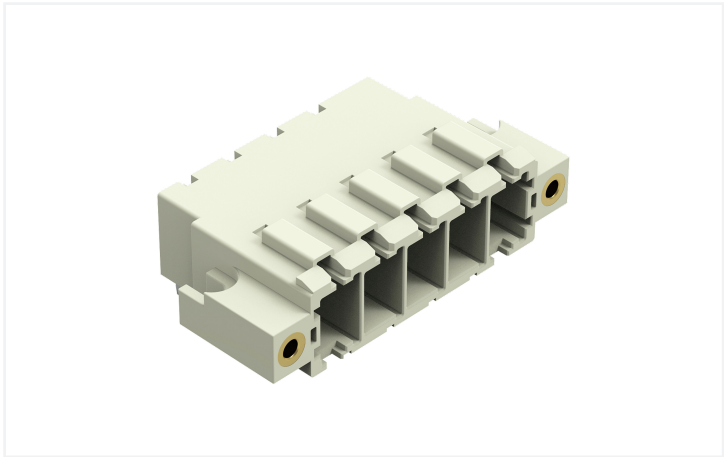
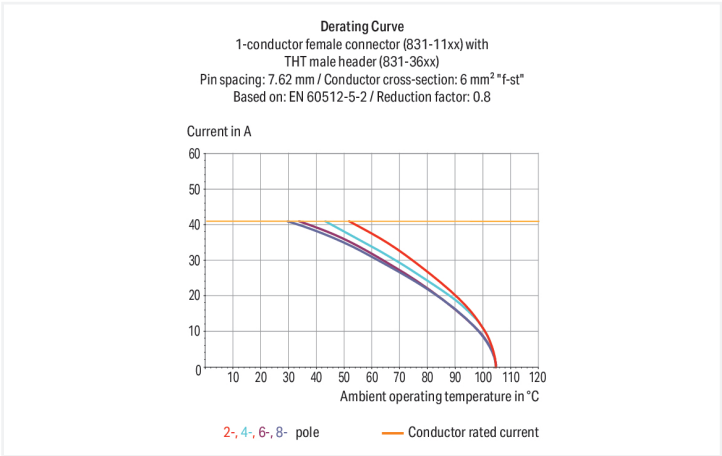
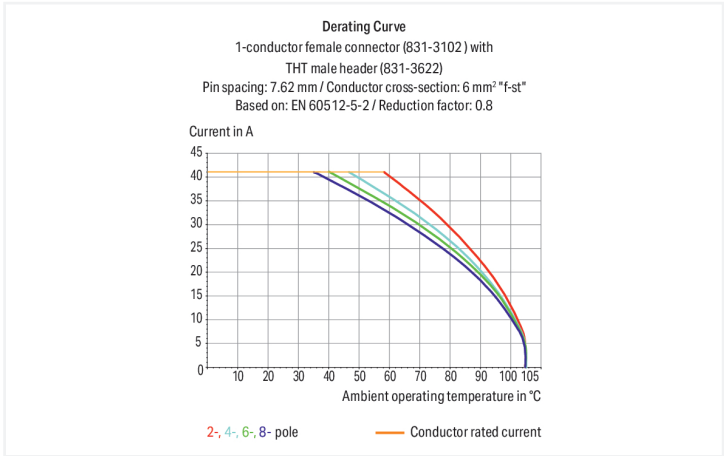
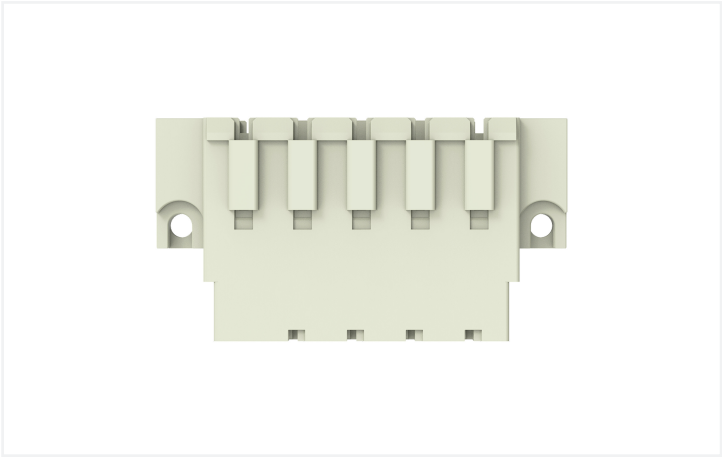
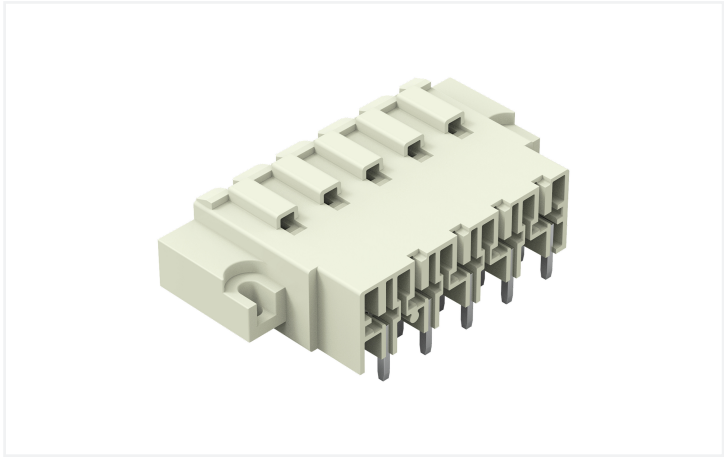
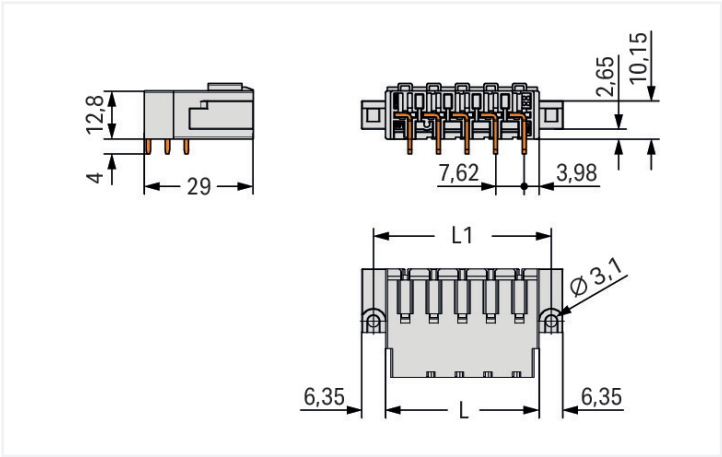




Color: ■ light gray





Dimensions in mm
L = pole no. x pin spacing + 2.9 mmL1 = L + 6.5 mm

Male connector, 831 Series, solder pin dimensions 1 x 1.2 mm

Our male connector (item number 831-3625/108-000) simplifies electrical installations. Dimensions: (53.7 x 18.8 x 29) mm (width x height x depth).

Tin is used for coating the contact surfaces. THT is used to solder the pcb connector.

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 Protection against PCB mounting errors 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	
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	500 V	630 V	1000 V
Rated impulse withstand voltage	6 kV	6 kV	6 kV
Rated current	41 A	41 A	41 A
Approvals per		UL 1059	
Use group	B	C	D
Rated voltage	-	300 V	600 V
Rated current	-	42 A	5 A
Approvals per		CSA	
Use group	B	C	D
Rated voltage	-	300 V	600 V
Rated current	-	41 A	5 A

Connection Data	
Total number of potentials	5
Number of connection types	1
Number of levels	1
Connection 1	
Pole number	5



Physical data		
Pin spacing		7.62 mm / 0.3 inches
Width		53.7 mm / 2.114 inches
Height		18.8 mm / 0.74 inches
Height from the surface		14.8 mm / 0.583 inches
Depth		29 mm / 1.142 inches
Solder pin length		4 mm
Solder pin dimensions		1 x 1.2 mm
Drilled hole diameter with tolerance		1.7 ^(+0.1) 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
Mating direction to the PCB		0 °
Locking of plug-in connection		Threaded flange

PCB contact		
PCB contact		THT
Solder pin arrangement		over the entire male connector (in-line)
Number of solder pins per potential		3

Material data		
Note (material data)		Information on material specifications can be found here
Color		light gray
Material group		I
Insulation material (main housing)		Polyamide (PA66)
Flammability class per UL94		V0
Contact material		Electrolytic copper (E _{CU})
Contact Plating		Tin
Fire load		0.267 MJ
Weight		16.1 g

Environmental requirements																		
Limit temperature range	-60 ... +105 °C	<table><tr><th colspan="2">Environmental Testing</th></tr><tr><td>Test specification: Railway applications – Rolling stock – Electronic equipment</td><td>DIN EN 50155 (VDE 0115-200):2022-06</td></tr><tr><td>Test procedure: Railway applications – Rolling stock equipment – Vibration and shock tests</td><td>DIN EN 61373 (VDE 0115-0106):2011-04</td></tr><tr><td>Spectrum/Mounting location</td><td>Service life test, Category 1, Class A/B</td></tr><tr><td>Functional test with noise-like oscillations</td><td>Test passed according to Section 8 of the standard</td></tr><tr><td>Frequency</td><td>f₁ = 5 Hz to f₂ = 150 Hz</td></tr><tr><td>Acceleration</td><td>0.101g (highest test level used for all axes)</td></tr><tr><td>Test duration per axis</td><td>10 min.</td></tr></table>	Environmental Testing		Test specification: Railway applications – Rolling stock – Electronic equipment	DIN EN 50155 (VDE 0115-200):2022-06	Test procedure: Railway applications – Rolling stock equipment – Vibration and shock tests	DIN EN 61373 (VDE 0115-0106):2011-04	Spectrum/Mounting location	Service life test, Category 1, Class A/B	Functional test with noise-like oscillations	Test passed according to Section 8 of the standard	Frequency	f ₁ = 5 Hz to f ₂ = 150 Hz	Acceleration	0.101g (highest test level used for all axes)	Test duration per axis	10 min.
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Spectrum/Mounting location	Service life test, Category 1, Class A/B																	
Functional test with noise-like oscillations	Test passed according to Section 8 of the standard																	
Frequency	f ₁ = 5 Hz to f ₂ = 150 Hz																	
Acceleration	0.101g (highest test level used for all axes)																	
Test duration per axis	10 min.																	
Processing temperature	-35 ... +60 °C																	



Environmental Testing	
Test directions	X, Y and Z axes
Monitoring of contact faults and interruptions	Passed
Voltage drop measurement before and after each axis	Passed
Simulated service life test through increased levels of noise-like oscillations	Test passed according to Section 9 of the standard
Frequency	f ₁ = 5 Hz to f ₂ = 150 Hz
Acceleration	0.572g (highest test level used for all axes)
Test duration per axis	5 h
Test directions	X, Y and Z axes
Extended testing: Monitoring of contact faults and interruptions	Passed
Extended testing: Voltage drop measurement before and after each axis	Passed
Shock test	Test passed according to Section 10 of the standard
Shock pulse form	Half sine
Acceleration	5g (highest test level used for all axes)
Shock duration	30 ms
Number of shocks (per axis)	3 pos. und 3 neg.
Test directions	X, Y and Z axes
Extended testing: Monitoring of contact faults and interruptions	Passed
Extended testing: Voltage drop measurement before and after each axis	Passed
Vibration and shock stress for rolling stock equipment	Passed

Commercial data	
PU (SPU)	24 pcs
Packaging type	Box
Country of origin	PL
GTIN	4066966089981
Customs tariff number	85366930000

Product Classification	
UNSPSC	39121409
ETIM 9.0	EC002637
ETIM 10.0	EC002637
ECCN	NO US CLASSIFICATION

Environmental Product Compliance	
CAS-No.	7439-92-1
REACH Candidate List Substance	Lead
RoHS Compliance Status	Compliant, No Exemption
SCIP notification number (Austria)	6ff93142-bb32-4ea3-bb1a-5d46a15e345e
SCIP notification number (Belgium)	08588749-1ee5-4d35-9410-6105a225cbc2
SCIP notification number (Bulgaria)	c242aa12-8a43-477c-a94e-9ea747faf32b
SCIP notification number (Czech Republic)	1af2cbd8-0c34-42a4-8554-9ceaa514a1d8
SCIP notification number (Denmark)	f8e54bf3-a5a8-49ae-870e-761fc5fe0072
SCIP notification number (Finland)	e46c1c3e-b645-490a-b75e-7a7e2a6546b7
SCIP notification number (France)	a6756003-5f74-44fb-b15b-9e46bf8ef4e1
SCIP notification number (Germany)	5b1f2bfa-a2fb-418a-85f4-24c0c4811f2a
SCIP notification number (Hungary)	77b20ee8-d9c1-47c9-b9b7-8ed0725033b7
SCIP notification number (Italy)	165fcd87-65cb-4af6-9fe3-fd0d4d0dca17



Environmental Product Compliance

SCIP notification number (Netherlands)	80fb5e06-3708-4ce0-8a74-7e010303a9c3
SCIP notification number (Poland)	f9aa0f63-a1d7-4802-9340-a621dabf06dd
SCIP notification number (Romania)	ec8e169e-2c1b-4bca-a7a4-9a63d27a2971
SCIP notification number (Sweden)	1b3011ed-f6c7-4df8-9c77-2db53eec6df6

Approvals / Certificates

General approvals	Declarations of conformity and manufacturer's declarations
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Approval	Standard	Certificate Name
CB DEKRA Certification B.V.	IEC 61984	NL-61360/M1
KEMA/KEUR DEKRA Certification B.V.	EN 61984	71-116057
UL Underwriters Laboratories Inc.	UL 1059	UL-US-2426356-0

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

Downloads

Environmental Product Compliance

Compliance Search
Environmental Product Compliance 831-3625/108-000



Documentation

Additional Information
Technical Section
03.04.2019
pdf 2027.26 KB



CAD/CAE-Data

CAD data
2D/3D Models 831-3625/108-000



CAE data
ZUKEN Portal 831-3625/108-000



PCB Design

Symbol and Footprint via SamacSys 831-3625/108-000
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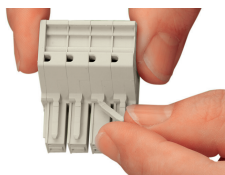


Symbol and Footprint via Ultra Librarian 831-3625/108-000

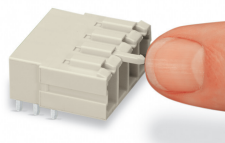


Installation Notes

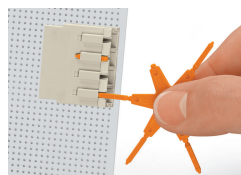
Coding



Break or cut off coding pin from female connector.



Insert coding pin into male header (break first) until it engages.



Coding a THT male header by inserting a coding pin.