

# CHARX T2HBI12-1AC32DC200-2,0M2 - Vehicle charging inlet



1162150

<https://www.phoenixcontact.com/gb/products/1162150>

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The figure shows a version of the product

CHARX connect universal, AC/DC CCS Typ 2, Vehicle charging inlet, up to 500 A in Boost mode, 200 A permanent, 1000 V DC, 32 A , 250 V AC, Single wires, length: 2 m, locking actuator: 12 V, 4-pos., Front and rear mounting, M6, housing: black, for charging with alternating current (AC) and with direct current (DC), IEC 62196-2, IEC 62196-3, A protective cap is supplied as standard for the DC and AC contacts.

## Product description

Vehicle charging inlet for charging with direct current (DC), compatible with type 2 CCS vehicle charging connectors (EVSE), for installation in electric vehicles (EV).

## Your advantages

- Complete product range
- Uniform, space-saving dimensions for the installation space and the screw connection points of all Phoenix Contact vehicle charging inlets
- Developed and produced in accordance with the IATF 16949 automotive standard and ISO 9001
- Integrated interlock during charging
- Manual emergency release of the locking actuator
- Protected and sealed against dirt and water with a high degree of protection

## Commercial data

Item number	1162150
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	XWCAID
Product key	XWCAID
GTIN	4063151171353
Weight per piece (including packing)	5,903 g
Weight per piece (excluding packing)	103 g
Country of origin	PL

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## Technical data

### Notes

General	A protective cap is supplied as standard for the DC and AC contacts.
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### Product properties

Product type	Vehicle charging inlet
Product family	CHARX connect universal
Charging standard	AC/DC CCS Typ 2
Charging mode	Mode 2, 3, 4
Customer variations	On request

### Electrical properties

#### Charging power and current (AC charging, 1-phase)

Type of charging current	AC single-phase
Charging current	32 A AC (1-phase)
Charging power	8 kW
Rated voltage	480 V

#### Charging power and current (DC charging)

Type of charging current	DC
Charging current	200 A DC
Charging power	200 kW
Rated voltage	1000 V

#### Charging power and current (DC charging in Boost Mode)

Type of charging current	DC Boost Mode
Charging current	up to 500 A DC
Charging power	up to 500 kW
Rated voltage	1000 V
Note	The specifications refer to charging in Boost Mode and are dependent on ambient conditions. For further details, see the packing slip in the download area.

#### Pin assignment (Power contacts)

Note on the connection method	Crimp connection, cannot be disconnected
Number	5 (L1, N, PE, DC+, DC-)
Rated voltage	250 V AC
	1000 V DC
Rated current	32 A AC
	200 A DC

#### Pin assignment (Signal contacts)

Note on the connection method	Crimp connection, cannot be disconnected
Type of signal transmission	Pulse width modulation with modulated Powerline

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	communication in accordance with ISO/IEC 15118 / DIN SPEC 70121
Number	2 (CP, PP)
Rated voltage	30 V AC
Rated current	2 A
Coding	4.7 kΩ (between PE and PP)
Insulation resistance	> 200 MΩ

## Locking actuator

Locking actuator	12 V, 4-pos. Right position
Possible power supply range at the motor	9 V ... 16 V
Maximum voltage for locking detection	12 V
Typical motor current for locking	0.25 A
Reverse current of the motor	max. 1.5 A
Max. dwell time with reverse current	1 s
Recommended adaptation time	600 ms
Pause time after entry or exit path	3 s
Service life insertion cycles	> 10000 load cycles
Lock recognition	available
Mechanical emergency release	available
Ambient temperature (operation)	-40 °C ... 40 °C

## Temperature sensors (PTC chain)

Sensor type	PTC chain
Standards/regulations	DIN EN 60738-1
Attachment point	Sensor for the AC contacts
Measuring range_resistance	790 Ω ... 1420 Ω
Resistance	max. 1280 Ω ±5 K
Recommended measured current	≤ 1 mA (U <sub>max</sub> = 16 V DC)
Ambient temperature	-40 °C ... 130 °C (Operation)

## Temperature sensors (Pt 1000)

Sensor type	Pt 1000
Standards/regulations	DIN EN 60751
Attachment point	2 sensors for the DC contacts

## Dimensions

### Vehicle charging inlet

Dimensional drawing	<p>The drawing shows two views of the vehicle charging inlet. The front view (left) shows a circular inlet with a diameter of 6.7 mm. Dimensions include a total width of 149.3 mm, a distance of 137.4 mm from the center to the top edge, 117.7 mm from the center to the bottom edge, 108 mm from the center to the right edge, 90 mm from the center to the left edge, 13.9 mm from the center to the top-right corner, 20.3 mm from the center to the bottom-right corner, 88.5 mm from the center to the bottom edge, and 80.8 mm from the center to the bottom-left corner. The side view (right) shows a depth of 128.5 mm, a distance of 103.5 mm from the front face to the center of the inlet, 6.9 mm from the front face to the top edge, 27.4 mm from the front face to the bottom edge, 116.7 mm from the front face to the bottom-right corner, 9.4 mm from the front face to the bottom edge, and a diameter of 11 mm for the front face.</p>
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Width	108 mm
Height	140.25 mm
Depth	128.4 mm

## Bore dimensions

Width	117.65 mm
Height	90 mm
Depth	117.65 mm

## Material specifications

Color (Housing)	black (9005)
Color (Mating face)	black (9005)
Material (Housing)	Plastic
Material (Contact surface)	Silver

## Cable/line

Cable length	2 m
Cable type	Single wires

## Single-core wires for AC

Cable length	2 m
Cable structure	2 x 6 mm <sup>2</sup>
Single wire, material	Silicone
Single wire, color	OG
External cable diameter	12.60 mm ±0.2 mm
Cable resistance	≤ 3.2 Ω/km

## Single-core wires for DC

Cable length	2 m
Cable structure	2 x 70 mm <sup>2</sup>
Single wire, material	Silicone
Single wire, color	OG
External cable diameter	17.90 mm ±0.3 mm
Cable resistance	≤ 0.259 Ω/km

## Single-core wire for PE

Cable length	2 m
Cable structure	1 x 25 mm <sup>2</sup>
Single wire, material	Silicone
Single wire, color	GN/YE
External cable diameter	8.60 mm ±0.1 mm
Cable resistance	≤ 0.743 Ω/km

## Single-core wires for locking actuator

Cable length	1.5 m
Cable structure	4 x 0.5 mm <sup>2</sup>

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Single wire, material	PVC
Single wire, color	BU/RD, BU/GN, BU/YE, BU/BN
External cable diameter	1.60 mm ±0.20 mm
Cable resistance	≤ 37.1 Ω/m

## Single-core wires for PTC temperature sensors

Cable length	1 m
Cable structure	2 x 0.5 mm <sup>2</sup>
Single wire, material	PVC
Single wire, color	BN/GY BN/YE/GN
External cable diameter	1.60 mm ±0.20 mm
Cable resistance	≤ 37.1 Ω/m

## Single-core wires for Pt 1000 temperature sensors

Cable length	1 m
Cable structure	3 x 0.5 mm <sup>2</sup>
Single wire, material	PVC
Single wire, color	BN GN YE
External cable diameter	1.60 mm ±0.20 mm
Cable resistance	≤ 37.1 Ω/m

## Single-core wires for communication

Cable length	1 m
Cable structure	2 x 0.5 mm <sup>2</sup>
Single wire, material	PVC
Single wire, color	BK WH
External cable diameter	1.60 mm ±0.20 mm
Cable resistance	≤ 37.1 Ω/m

## Mechanical properties

### Mechanical data

Insertion/withdrawal cycles	> 10000
Insertion force	< 100 N
Withdrawal force	< 100 N

## Environmental and real-life conditions

### Ambient conditions

Degree of protection (Vehicle charging inlet)	IP55 (plugged in; when plugged in and ready to operate, the degree of protection is only ensued if both plug-in components are original products from Phoenix Contact or suitable standard-compliant products)
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	IP67 (Inner area of vehicle charging inlet)
Ambient temperature (operation)	-40 °C ... 40 °C (60°C, maximum (current reduction required, observe the DC contact temperature limit value of 90°C))
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Altitude	4000 m (above sea level)

## Standards and regulations

Standards/specifications	IEC 62196-2
Standards/specifications	IEC 62196-3

## Mounting

Mounting type	Front and rear mounting (0 to 90 degree frontal inclination possible)
Mounting hole diameter	6.70 mm (ø)
Fixing screws	M6
Screws included in the scope of delivery	none

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## Drawings

Dimensional drawing



Dimensional drawing

Dimensional drawing



Reference points for measuring the line length

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Connection diagram



Pin assignment of vehicle charging inlets

Connection diagram



Installation positions

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Detection for Vehicle Connector



The Combined Charging System (CCS) principle - standard-compliant charging system for electric vehicles, which supports both conventional AC charging and fast DC charging. Both Vehicle Connectors fit into the CCS Vehicle Inlet.

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Schematic diagram



Operating instructions

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Schematic diagram



Block diagram of the locking actuator

Schematic diagram



Temperature sensor technology resistance range at AC contacts

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Locking states of the locking actuator

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Diagram



Pt 1000 characteristic curve at an ambient temperature of 25°C for temperature measurement at the DC contacts

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## Classifications

### ECLASS

ECLASS-15.0	27144706
ECLASS-13.0	27144706

### ETIM

ETIM 10.0	EC002898
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### UNSPSC

UNSPSC 21.0	39121800
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 7(c)-I

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)(CAS: 15571-58-1)
	Lead(CAS: 7439-92-1)
	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol(CAS: 119-47-1)
SCIP	4b424f49-2ae9-459b-9d63-9d3eaccee5cb

### EF3.1 Climate Change

CO2e kg	48.1 kg CO2e
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## Accessories

### CHARX T2HBI-DUST-COVER-SET - Protective cap

1305486

<https://www.phoenixcontact.com/gb/products/1305486>



CHARX connect universal, AC/DC CCS Typ 2, Protective cap, Accessories, Plug-on assembly, housing: black, for vehicle charging inlet

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### CHARX T2HBI-FLAP-COMPLETE - Protective cover

1778115

<https://www.phoenixcontact.com/gb/products/1778115>



CHARX connect universal, AC/DC CCS Typ 2, Protective cover, Accessories, square, M6, with status indicator via freely controllable RGB LED, with cancel charging button, for mounting on vehicle charging inlets, UNECE R61

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## CHARX T2HBI-FLAP-ESSENTIAL - Protective cover

1778119

<https://www.phoenixcontact.com/gb/products/1778119>



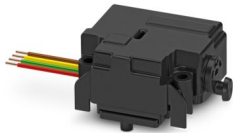
CHARX connect universal, AC/DC CCS Typ 2, Protective cover, Accessories, square, M6, for mounting on vehicle charging inlets, UNECE R61

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## CHARX T2HI-ELOCK12V - Locking

1331532

<https://www.phoenixcontact.com/gb/products/1331532>



CHARX connect universal, Type 2, Locking, Accessories, Single wires, length: 1 m, locking actuator: 12 V, 4-pos., for mounting on vehicle charging inlets, IEC 61851-1

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## CHARX T2HI-ELOCK24V - Locking

1331524

<https://www.phoenixcontact.com/gb/products/1331524>

CHARX connect universal, Type 2, Locking, Accessories, Single wires, length: 1 m, locking actuator: 24 V, 4-pos., for mounting on vehicle charging inlets, IEC 61851-1



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