EV-T2M3SE12-3AC32A-0,7M6,0E10 - Infrastructure charging socket

1405214

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CHARX connect basic, Type 2, Infrastructure charging socket, 32 A , 480 V AC, Gen 1, Single-core wires connected at one end, length: 0.7 m, locking actuator: 12 V, 4-pos., square, Rear panel mounting, housing: black, for charging electric vehicles (EV) with alternating current (AC), PHOENIX CONTACT logo, IEC 62196-2

Product description

Infrastructure charging socket for charging electric vehicles (EV) with alternating current (AC), compatible with type 2 Infrastructure Plugs, for installation at charging stations for E-Mobility (EVSE)

Your advantages

- Complete product range
- Uniform, space-saving installation space
- Available with your logo on request - for consistent branding of your charging station
- Integrated interlock during charging
- Manual emergency release of the locking actuator
- Developed and produced in accordance with the IATF 16949 automotive standard and ISO 9001

Commercial data

Item number	1405214
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	XWBFAA
Product key	XWBFAA
GTIN	4046356738477
Weight per piece (including packing)	652.94 g
Weight per piece (excluding packing)	564 g
Customs tariff number	85444290
Country of origin	PL

Technical data

Product properties

Product type	Infrastructure charging socket
Product family	CHARX connect basic
Type	Gen 1
Charging standard	Type 2
Charging mode	Mode 3, Case B
Design (Infrastructure charging socket)	square
Affixed logo	PHOENIX CONTACT logo
Customer variations	On request

Electrical properties

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

Charging power and current (AC charging, 3-phase)

Type of charging current	AC 3-phase
Charging current	32 A AC (3-phase)
Charging power	26.6 kW (3-phase)
Charging power rating	22 kW (32 A, 3-phase)
Operating voltage	typ. 400 V AC

Pin assignment (Power contacts)

Number	5 (L1, L2, L3, N, PE)
Rated voltage	480 V AC
Rated current	32 A

Pin assignment (Signal contacts)

Number	2 (CP, PP)
Rated voltage	30 V AC
Rated current	2 A

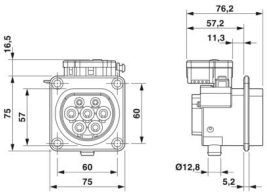
Locking actuator

Locking actuator	12 V, 4-pos.
	Top center position
Possible power supply range at the motor	9 V ... 16 V
Maximum voltage for locking detection	30 V
Typical motor current for locking	0.2 A
Reverse current of the motor	max. 1 A
Max. dwell time with reverse current	1000 ms
Recommended adaptation time	600 ms
Pause time after entry or exit path	3 s
Service life insertion cycles	> 10000 load cycles

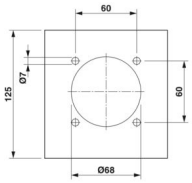
Lock recognition	available
Mechanical emergency release	available
Ambient temperature (operation)	-30 °C ... 50 °C

Dimensions

Infrastructure charging socket

Dimensional drawing	 Dimensional drawing
Width	75 mm
Height	96 mm
Depth	76.2 mm

Bore dimensions

Dimensional drawing	 Hole image
Width	60 mm
Height	60 mm

Material specifications

Color (Housing)	black (9005)
Material (Housing)	Plastic
Material (Contact surface)	Silver
Flammability rating according to UL 94	V0 ()

Cable/line

Cable length	0.7 m ±5 mm
Cable type	Single-core wires connected at one end
Cable structure	5x 6.0 mm² + 2x 0.5 mm²
Single wire, cross section	6.00 mm²

Single-core wires for AC

Cable length	0.7 m ±5 mm

Single-core wires for locking actuator

Cable length	0.5 m
Cable structure	4 x 0.5 mm²

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 (Infrastructure charging socket)	IP44
Degree of protection (Protective cover)	IP54 (see accessories)
Ambient temperature (operation)	-30 °C ... 50 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Altitude	5000 m (above sea level)

Standards and regulations

Standards

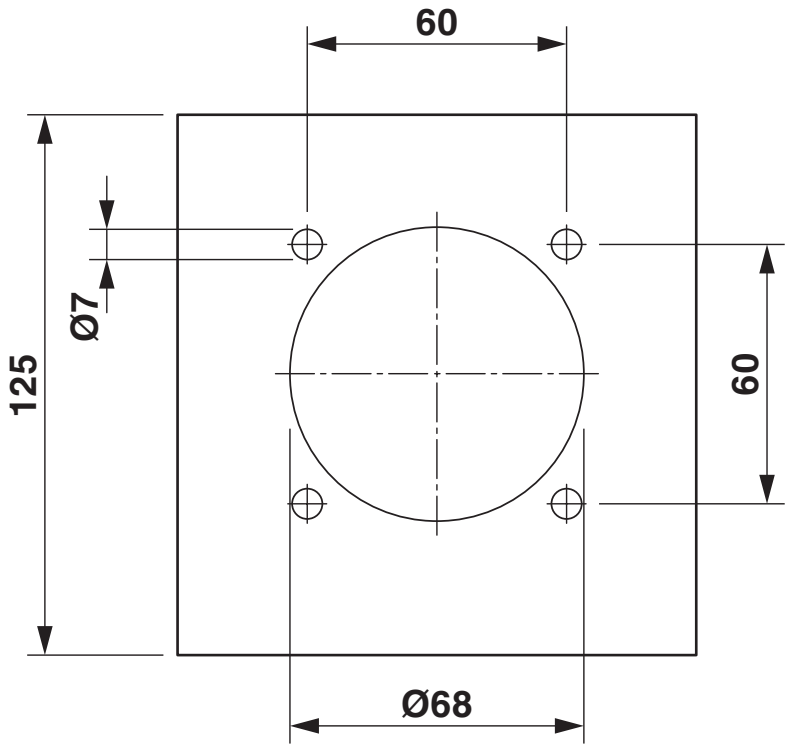
Standards/regulations	IEC 62196-2

Mounting

Mounting type Infrastructure charging socket	Rear panel mounting (0 to 90 degree frontal inclination possible)
	Front mounting (only possible when the locking actuator is removed (see EV-T2M3SE…E00 versions))
Mounting type Protective cover	Rear panel mounting (available separately)
Mounting hole diameter	7.00 mm (ø)

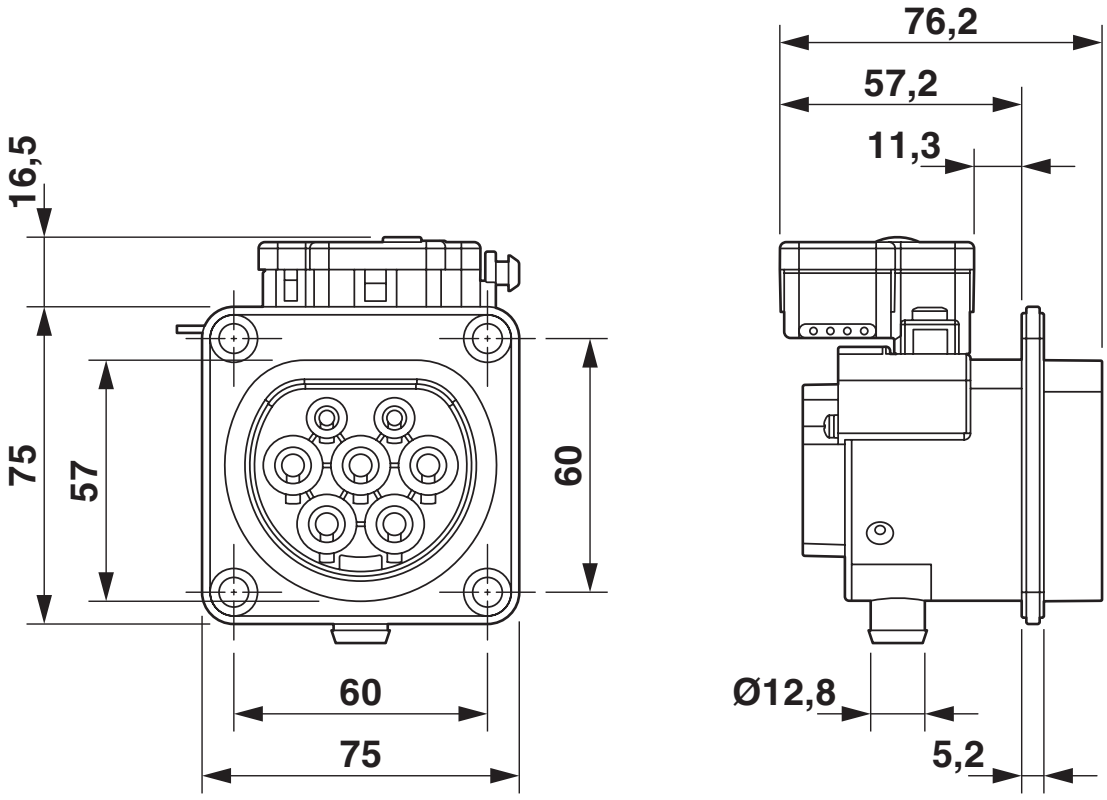
Drawings

Dimensional drawing



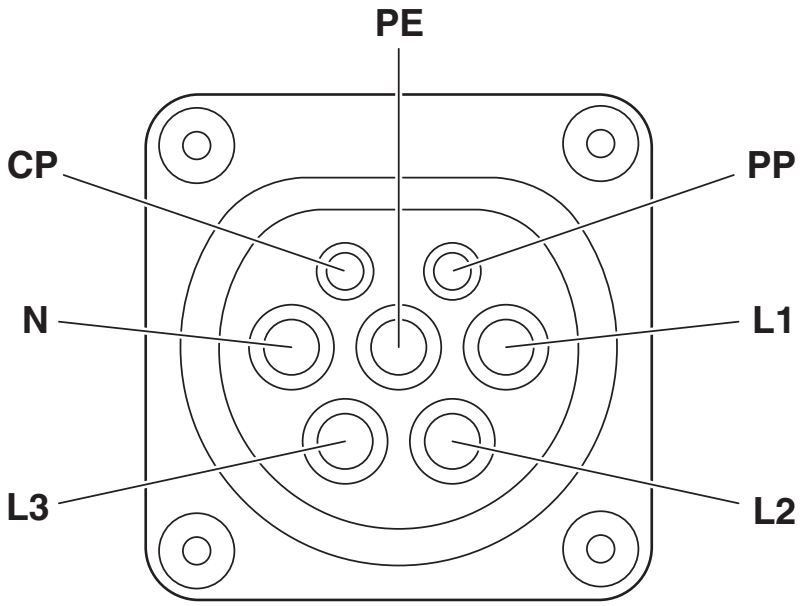
Hole image

Dimensional drawing



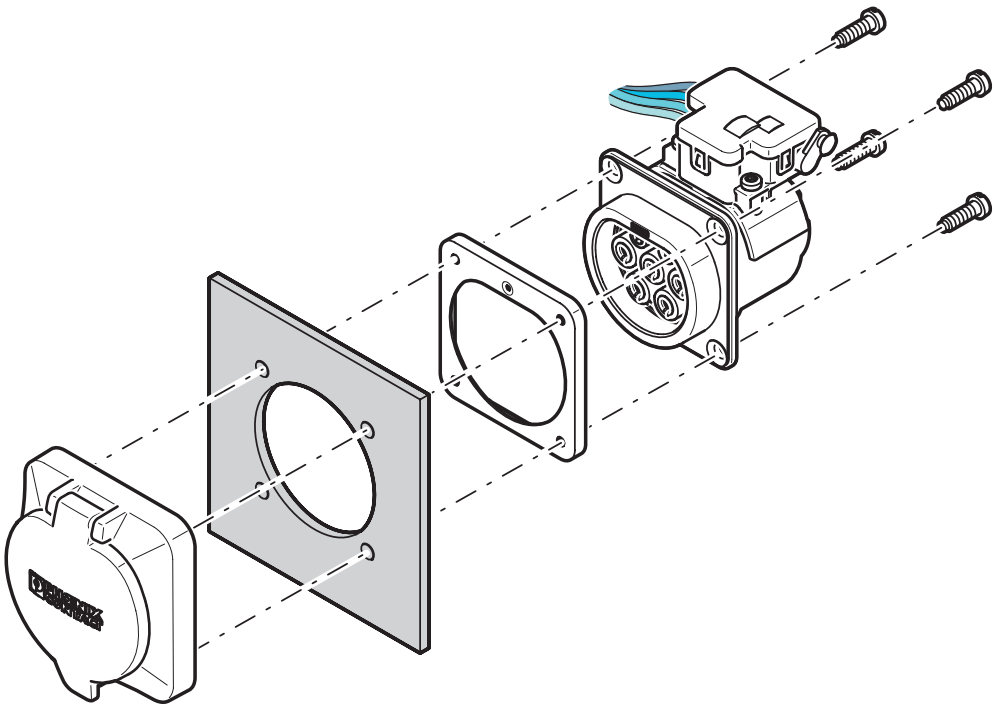
Dimensional drawing

Connection diagram



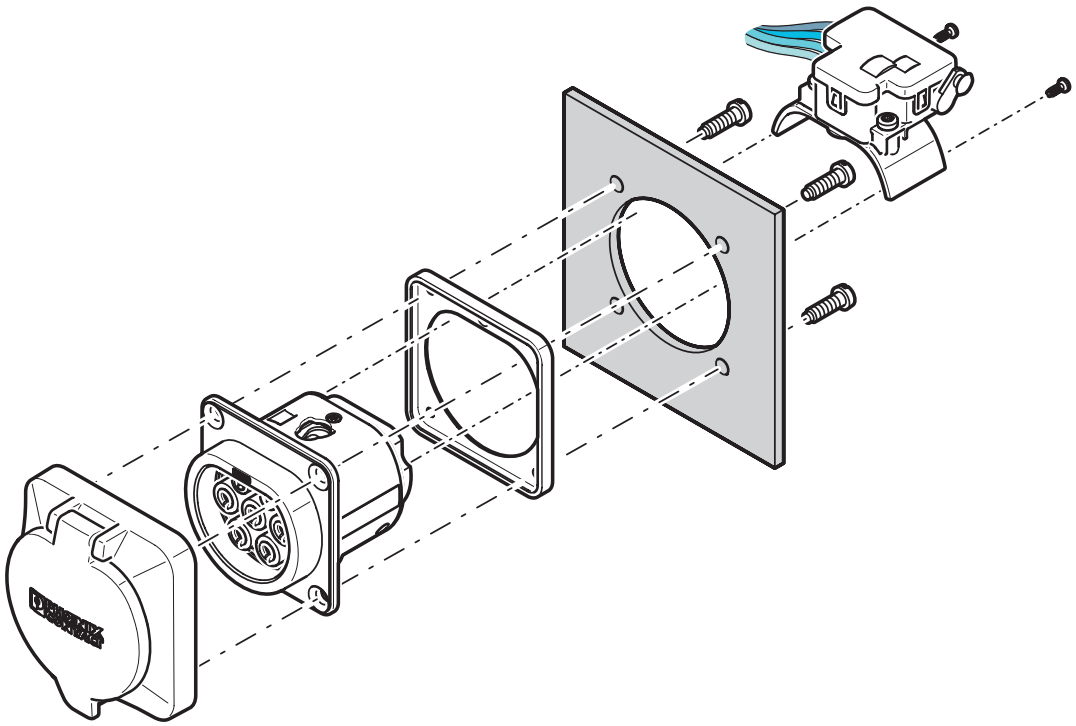
Pin assignment of infrastructure charging socket

Schematic diagram



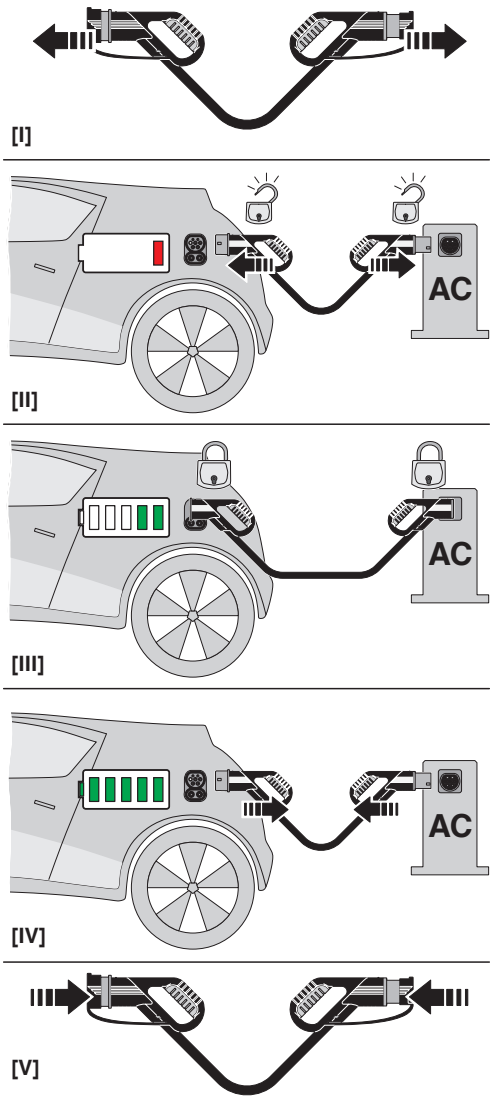
Rear mounting with rear protective cover screw connection
The screw connection for a protective cover from the accessories range (EV-T2SC) only supports rear mounting. The panel thickness must not exceed 5 mm. The sealing frame that is slid on from the rear must contact the housing panel flush with the flat side and must completely surround the infrastructure socket outlet.

Schematic diagram



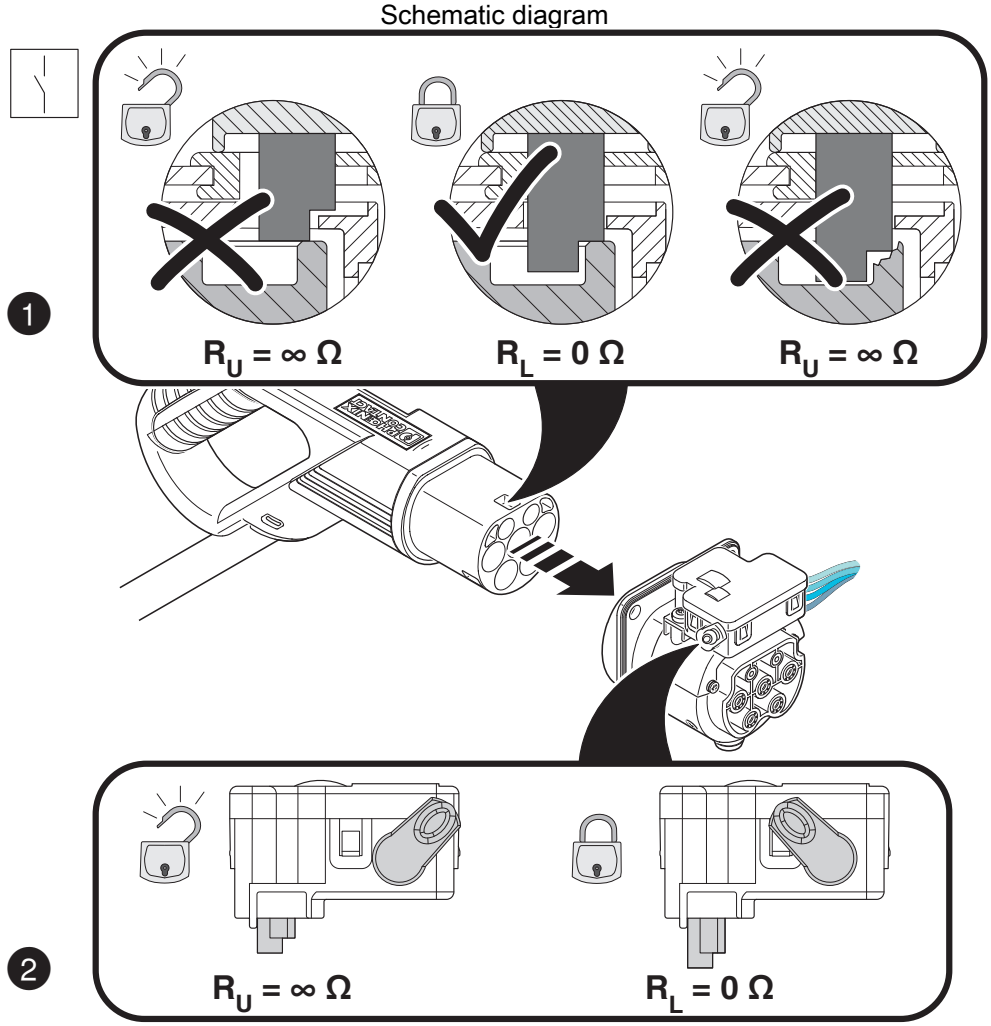
Front mounting with rear protective cover screw connection
Front mounting is only possible when the locking actuator is removed. We recommend using an infrastructure socket outlet without pre-assembled locking actuator (EV-T2M3SE-...E0..., e.g., 1621729).
The screw connection for a protective cover from the accessories range (EV-T2SC) only supports rear mounting. The panel thickness must not exceed 10 mm. The sealing frame that is slid on from the front must contact the housing panel flush with the flat side and must completely surround the infrastructure socket outlet.

Schematic diagram



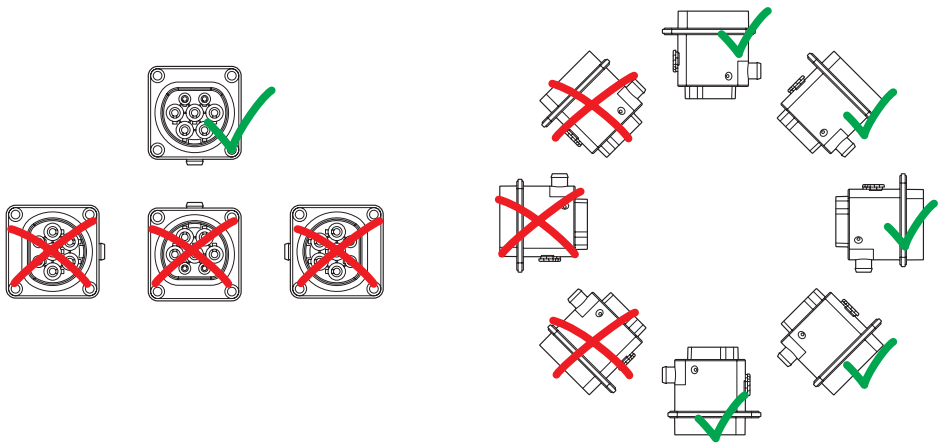
Operating instructions

Schematic diagram



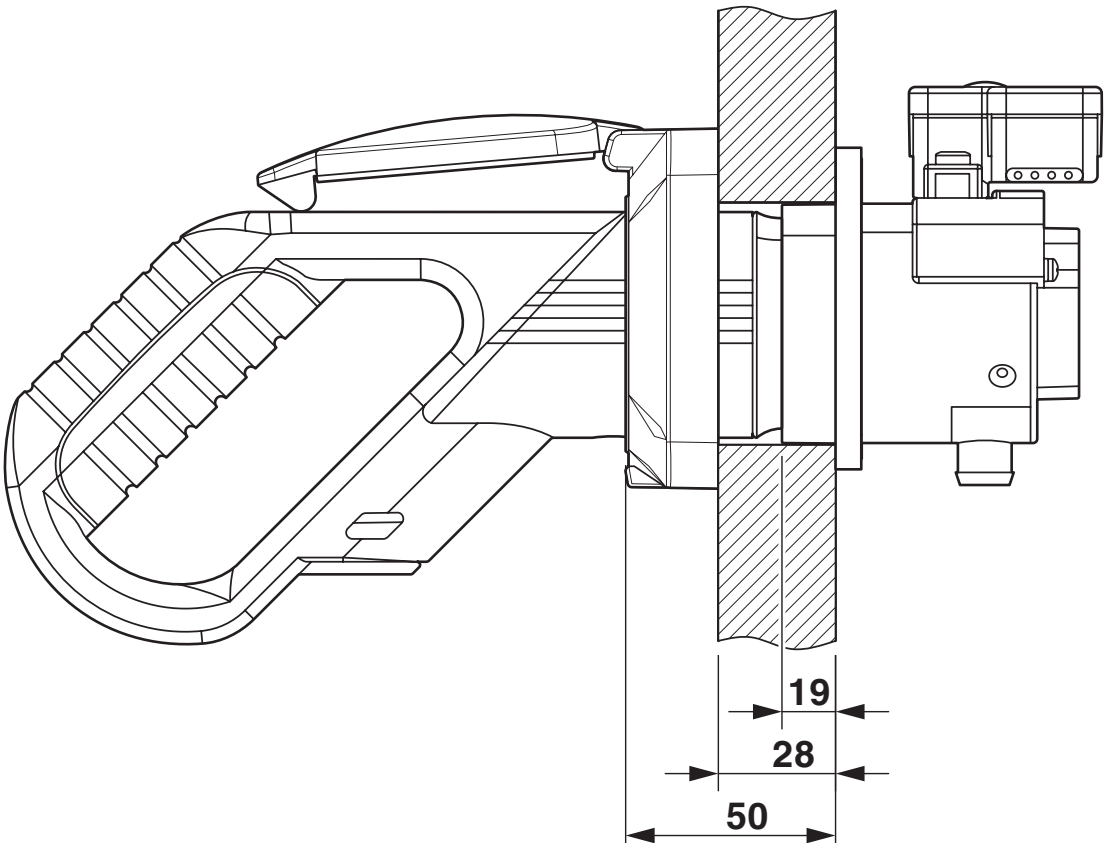
Detection of the Infrastructure Plug

Schematic diagram



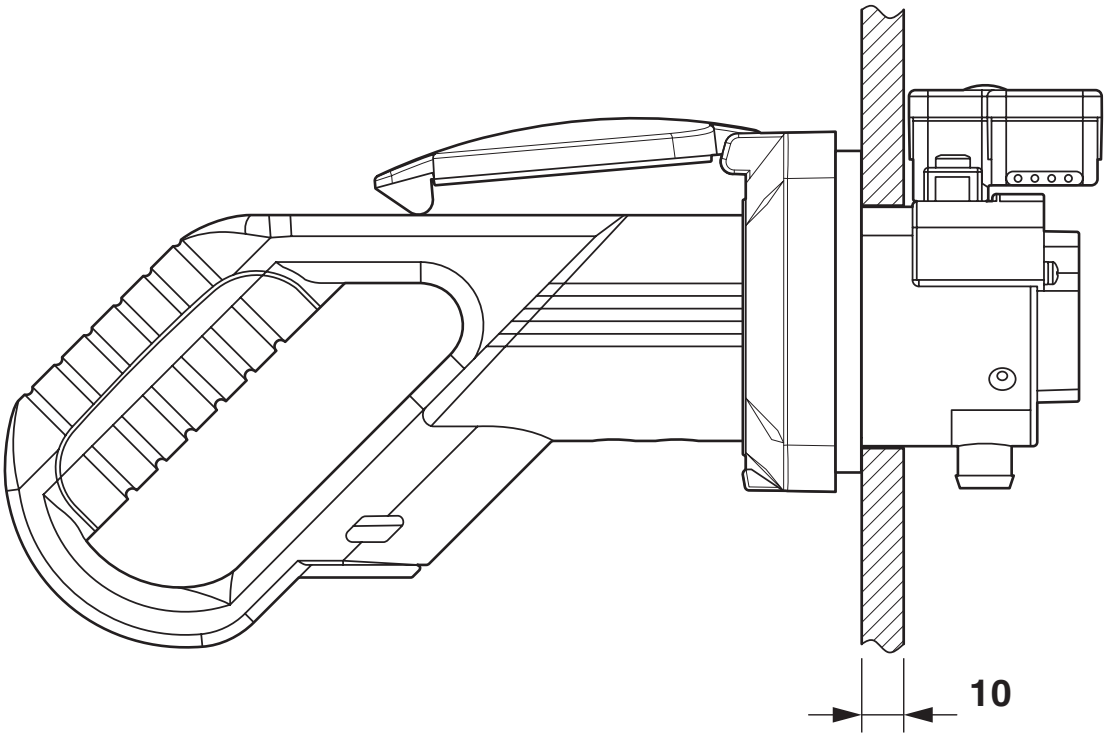
Installation positions

Schematic diagram



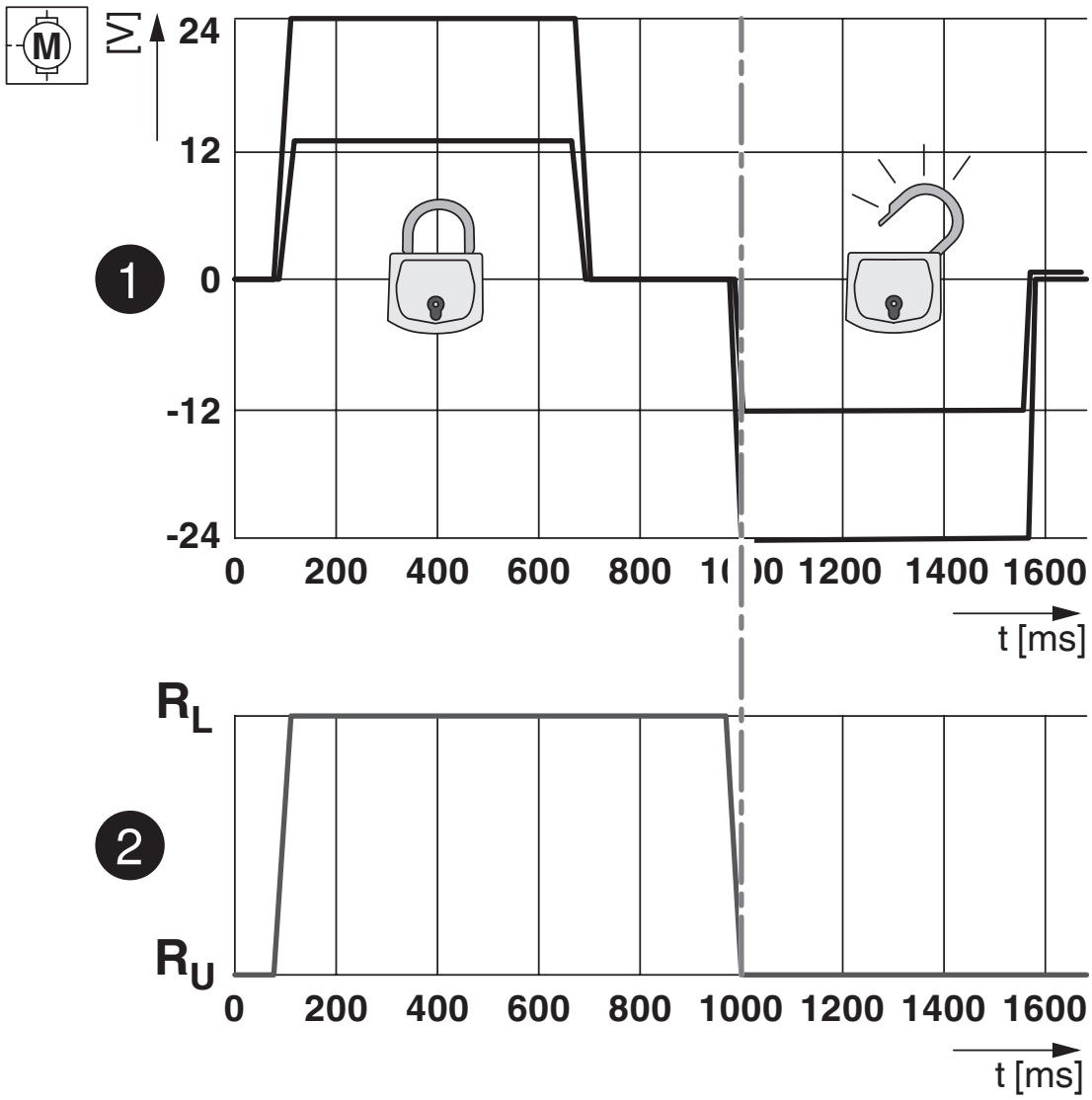
Panel thickness for rear mounting (max. 50 mm, with Phoenix Contact protective cover, max. 22 mm)

Schematic diagram



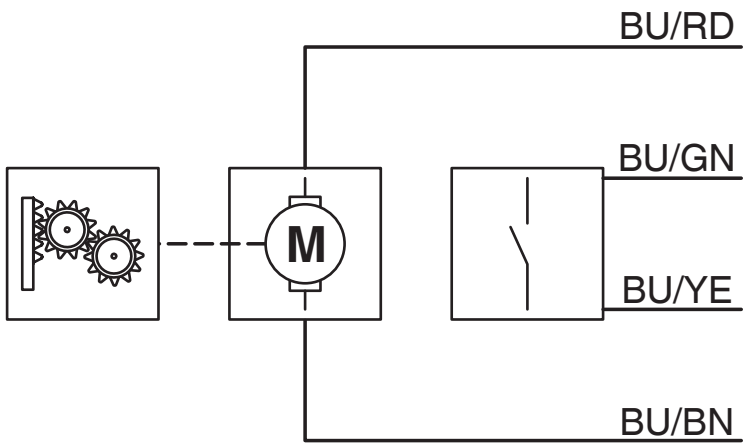
Panel thickness for front mounting (in mm)

Diagram



Locking states of the locking actuator

Block diagram



Block diagram of the locking actuator

Classifications

ECLASS

ECLASS-13.0	27144706
ECLASS-15.0	27144706

ETIM

ETIM 10.0	EC002898

UNSPSC

UNSPSC 21.0	39121800

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Not applicable, No electrical and electronic equipment (EEE), cannot be used in EEE

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	6160c141-ede6-4a31-b1f8-ea42f899508f

EF3.1 Climate Change

CO2e kg	17.24 kg CO2e

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