



Instruction Manual

VARITAIN PushIn Mobile Extension



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Alterations	Version	Revision date	Change
	1.0	08/2019	First edition of this manual

Original instructions

The German version of this document is the original manual.

List of abbreviations

CEE Colloquial for internationally standardized plug connections according to former CEE (Commission internationale de réglementation en vue de l'approbation de l'équipement électrique) – now IEC. Connectors for three-phase alternating current with a nominal voltage of 440 volts which comply with the international standards [IEC 60309-1 (DIN EN 60309-1; VDE 0623-1), IEC 60309-2 (DIN EN 60309-2; VDE 0623-2)].

SP Spare Parts

Documents available for this product

The declaration of conformity and the manufacturer's declaration accompanying the product are enclosed separately with these instructions. Should these be lost, a current status can be viewed on the WISKA homepage:

<https://www.wiska.com/de/>

1 About this manual

1.1 Structure and purpose of this manual

The instructions for use serve to ensure safe and error-free operation of the product. The manual is divided into the chapters safety, use, troubleshooting and maintenance as well as technical specifications. Information on service and repair can be found in the separate service manual.

1.2 Users and target groups

These operating instructions are intended for operators, skilled personnel and operating personnel. If a chapter is intended for a specific target group, this is indicated in the introduction.

All persons operating and maintaining the product must have read and understood the contents of this manual and must follow all safety and handling instructions to ensure safe handling of the product. Every user must be appropriately trained and instructed on the product.

Work on the product without the aid of these instructions is not permitted.

1.2.1 User qualification

The user must read and have understood the entire documentation in order to understand the context of the individual components and the operation of the product.

1.2.2 Qualification of technical personnel

The technical staff must be a skilled person having a level of training enabling them to check the function and carry out an inspection.

1.3 Safety instructions

1.3.1 Meaning of the safety instructions

The chapter safety and warning notes describes their structure and use. Before any dangerous situation occurs, a warning is issued to indicate the situation to be avoided.



DANGER

Danger means a dangerous situation which, if not avoided, will result in immediate death or serious injury.



WARNING

Warning means a potentially hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION

Caution means a low-risk hazard which, if not avoided, could result in minor or moderate injury to persons.

ATTENTION

Caution indicates the possibility of material damage to the product and its function.

1.3.2 Structure of the safety instructions

Safety instructions at WISKA are prepared according to the SAFE principle and derived from the residual risks of the risk assessment:

- **Keyword**
The keyword indicates the severity of the danger that occurs (danger, warning, attention, hint, information).
- **Nature and source of danger**
Identification of hazard and cause, analogous to the DIN EN ISO 12100 standard.
Consequences Shows possible consequences of non-observance.
- **Escape or avoidance**
Possibilities to avoid or completely avoid dangers.



DANGER	
Nature and source of danger	Consequences arising from this danger Escape and avoid danger.

1.3.3 Embedded Safety Instructions

In order not to disturb the reading flow, further safety instructions are embedded in the description of the work processes. These look as follows:





1. Take ...
2. Remove ...



Risk of electric shock.
Disconnect the power supply before starting work.
Check.

3. Separate ...
 4. Removing ...
- ✓ The assembly has been removed.

1.4 Labels and Symbols

Icon	Significance	Use
	Danger symbol Warns of an immediate danger.	Safety and warning information
	Danger symbol Warns of an electrical hazard.	Safety and warning information
	Mandatory sign Observe operating instructions.	Safety and warning information
	Information An electrician is required for installation.	Safety and warning information

2 Safety information

2.1 General safety instructions

The following safety instructions must always be followed:

- Read the entire operating instructions before use and before servicing or repairing the product. Otherwise there is a danger to people and the product.
- Switch off the unit in case of smoke, strong heating or noises.
- Do not touch during thunderstorms.
- In case of low temperatures or ice, only touch the device with gloves.
- Maintenance or repairs may only be carried out by qualified electricians.
- Do not modify products. This results in unforeseeable dangers.
- Unauthorized modifications void the product's operating license and warranty.
- Only use original spare parts purchased from WISKA.
- Follow all described safety instructions.
- Follow national and local regulations when working on the product.

These safety instructions apply to all work on all WISKA products.

2.2 Hazardous areas and points of operation

Hazardous areas or points of operation are among others:

- Risk of tripping in the area of the cable

2.3 Guards

There are no known hazards for this product that could affect the operator.

3 Technical description

3.1 Product overview

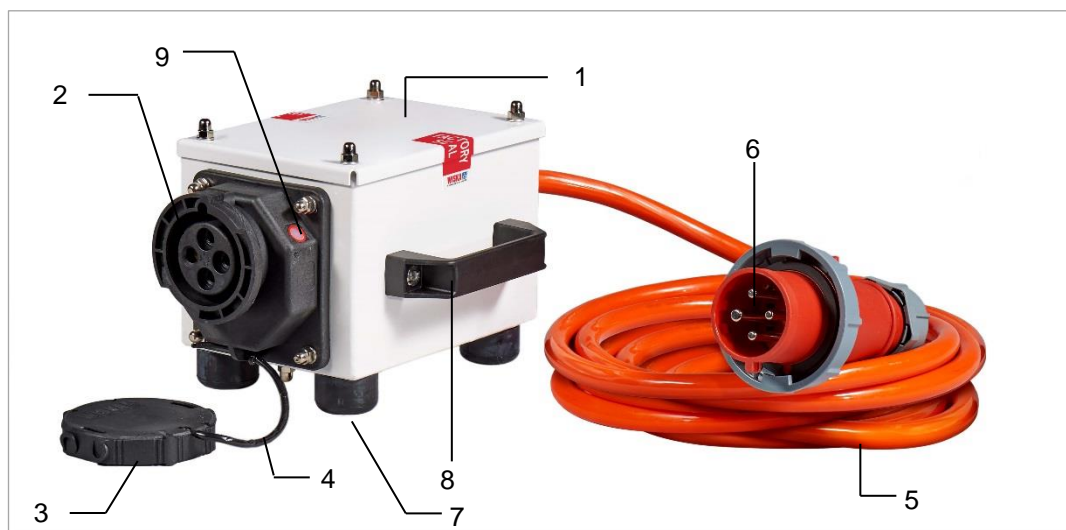


Figure 1

Pos.	designation	Pos.	designation
1	case	2	CEE socket drawer unit
3	sealing cap	4	cap fastening cable
5	power cords	6	CEE plug
7	feet	8	grab handle
9	LED indicator (green)	n/a	-

3.2 Description and scope

Reefer container sockets enable the voltage-free connection of reefer containers to the 440V on-board network of a container ship or on land in terminal parking spaces.

The reefer container socket outlet extension serves to bridge large distances between a permanently installed reefer container socket outlet of the PushIn series and a container.

The reefer container socket outlet extension consists of the housing box, the CE socket outlet insert and a 25 m cable with CEE plug.

The reefer container socket outlet extension is approved for outdoor use. The device fulfils a degree of protection IP66 / IP67.

The socket extension may only be **used for its intended purpose**.

It's forbidden:

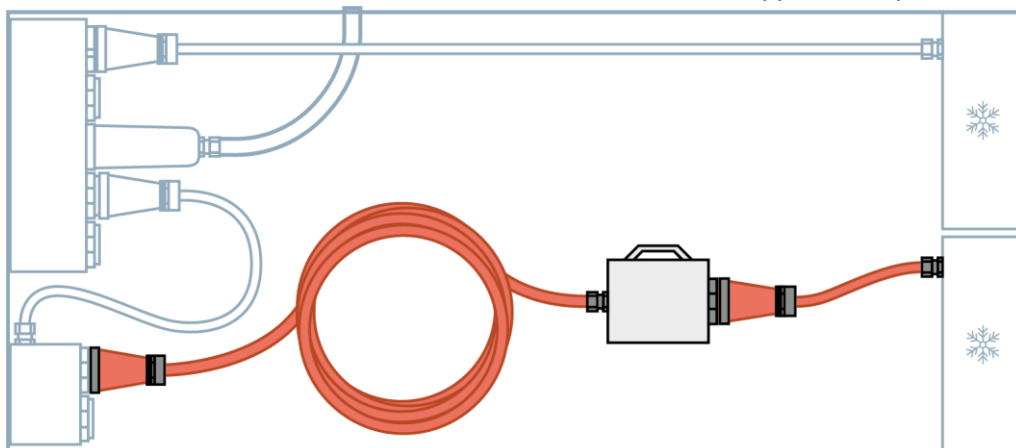
- Using the socket extension as a step.
- To hang objects from the cable.
- Use the cable to hold or secure persons.
- To throw the socket extension.

3.3 Technical components

Reefer socket The CEE socket outlet module has a power switch for 440V $\pm 10\%$ (3-phase) and can switch a maximum of 32A. The built-in protective device protects the circuit against short circuits and overloads.

Due to the design of the CEE socket insert, an incorrect plug direction of the plug is impossible. This applies both to the cable between the container and the extension and between the extension and the reefer container socket.

connection cable The cable is extremely cut resistant and highly resistant to UV rays, ozone and mineral oil. The LED indicator element indicates whether the container is supplied with power.



Typical application

4 Commissioning

The product is delivered in a carton. Check the packaging for transport damage. If there is any damage, contact customer service.

Transport the product to the place of use. If there is a delay in use, store the product temporarily.

4.1 Unpack

Remove the package tape from the carton.

Remove cushioning material from product.

Remove operating instructions and product.

Check completeness.

✓ The product is unpacked.

4.2 Setting up

- Determine the length of the cable from the container.
- Find a suitable location for the housing.
- Install or hang the housing.
- The housing can be suspended from a railing with the optional retaining brackets.

CAUTION

Place the device on its feet.

Otherwise water can penetrate from the back. Malfunctions are possible.

→ Place the device on its feet or fasten it to a railing using a retaining bracket.

CAUTION

Do not hang the device from the cable.

The device can move. Damage and malfunctions of the device are possible. Damage to the paintwork on the deck is possible.

→ Use the bracket or place the unit on the floor.

WARNING

Do not throw the device at the place of installation.

People can get hurt. Damage and malfunctions of the device are possible. Damage to the paintwork on the deck is possible.

→ Carry the device to the place of installation.

5 Operation

5.1 General operation

This chapter describes the operation of the product. It ensures that all operating modes present on the product are described or how the product is put back into operation after a system failure and also warns of dangerous situations that may occur during operation.

5.2 Electrical connection

The Varitain PushIn Mobile Extension is powered from a Varitain Push-In reefer container socket.

5.2.1 Connection and operation

Locking system

According to international regulations, the plug can only be plugged in and unplugged when the circuit-breaker is open.

1. check before connecting:

- the plug housing is undamaged.
- the bayonet ring is available with undamaged seal.
- the plug is clean and dry.
- the auxiliary projection of the plug is present.
- The plug complies with the valid standards IEC 60309-1 (DIN EN 60309-1; VDE 0623-1), IEC 60309-2 (DIN EN 60309-2; VDE 0623-2).

NOTICE

Use only approved plugs.
No power supply to the refrigerated container with other plugs.
→ Check plug for compatibility before use. Connectors that comply with the standard are permitted.

2. lay the cable from the container to the socket extension. Lay the cable from the socket extension to the reefer container socket.

Ensure that the cables have been properly laid or stowed.

CAUTION

Do not lay the cable in the shortest way.
Tripping hazard.
→ Lay cables in accordance with IMO regulations in the intended cable routing zones.

Connect the CEE plug of the socket extension to the Varitain PushIn reefer container socket.

4. connect the CEE plug of the refrigerated container.

5.2.2 Switch on



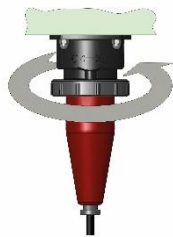
Turn bayonet cap counterclockwise and remove.

Insert the plug into the socket as far as it will go.

The socket is switched on!



The LED display on the socket module lights up green.



Slide the bayonet ring over the bush and tighten clockwise.

✓ The cooling socket extension is now in operation.

5.2.3 Switch off



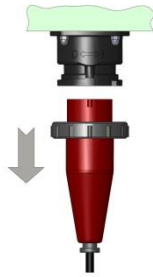
Turn counterclockwise. The bayonet ring of the plug is loosened.



Pull the plug out of the socket.

The power socket is switched off.

The LED display is extinguished.



Turn the bayonet cap clockwise. The bayonet cap cannot be lost.

- ✓ The cooling socket extension is now out of order.

5.2.4 Interim storage

Return the device to the warehouse after use.

6 Troubleshooting

If faults should occur in the product, the necessary measures can be determined here in order to provide the operator with remedial measures within the scope of his possibilities.

flaw	cause	remedy
Indicator does not light up	LED defective.	Inform ship's electrician, arrange for repair.
	connection	Plug not tight
	No power	s. Refrigerated container socket outlet not switched on.
Reefer container socket outlet not switched on	Connection: Plug not tight.	Pull out the plug and insert it firmly.
	Connection: Bayonet cap not locked.	Lock bayonet cap.
	No power.	Connect the power supply via the main switch.
		Power supply. Check. Check fuse.
		Make sure that no live cables are defective.
	Power outage.	Pull out the plug and insert it firmly again.
Moisture in the housing	Incorrect position of use.	Exchange for a dry extension.
	Condensation.	Check Vent Plug. Replacement with standing water in the housing.
Seal damaged	Housing open.	Check function.
Lead cable damaged Conductors visible	Buckling, cut or crushing.	Replace with an intact device. I need a ship's electrician.

7 Maintenance

Maintenance and inspection can be carried out by qualified personnel. Repairs may only be carried out by personnel who have undergone training by a specialist in electrical engineering.

7.1 Warranty

If there is a defect in your product, please contact the WISKA service.

7.2 Maintenance

The system is maintenance-free. If problems or malfunctions occur, refer to the chapter "Troubleshooting".

7.3 Inspection

Perform a view and function test at regular intervals, but at the latest once a month. Check the product:

- External damage and wear on all parts
- completeness:
 - Bayonet ring with undamaged seal.
 - Auxiliary overhang of the plug.
- state
 - Plug and device clean and free of water.
- Plug according to valid standard.

7.4 Repair



A specialist in electrical engineering is required for repair and maintenance.

A service manual is optionally available

7.5 Cleaning

ATTENTION

Do not use cleaning agents containing alcohol or lyes for cleaning. These can damage the surface and make it dull.

Clean the surface of the product with a lint-free damp cloth and a mild detergent.

8 Spare parts

No.	designation	Item no.	spare part designation
1	Spare parts package with socket module	22000741	SP-MOBILE-PI/LED/DAE/25kA/20A/BC/NUTS
2	domed nuts	22000402	SP-CAP NUTS M6

9 Disposal and decommissioning

9.1 Disposal

Comply with local and national laws, guidelines and regulations regarding the disposal of materials and products.

In case of doubt, ask the manufacturer whether he will take back the products manufactured by him and return them for disposal and recycling.

9.2 Decommissioning

To shut down or shut down the product, proceed as follows:

1. Follow the safety and warning instructions on the product and in the associated documentation.
 2. Disconnect the product from the power supply.
 3. Send the reefer container socket outlet extension for further use or for disposal.
- ✓ The plant or part of the plant has been shut down.

10 Technical data

10.1 Technical data

Trait

Housing material	Stainless steel 1.4301 (V2A)
Protective cap material	Polyamide
Socket insert	3 - pole + PE
Number of sockets	1
Clock position	3h
Short-circuit current	25kA
Voltage max. (V)	440 V±10%
Voltage type	Three-phase, 50/60Hz
Current	32A
Current consumption	4mA
Degree of protection	IP66 / IP67
Environmental field	Outdoor
Operating temp. min	-25°C
Operating temp. max.	45°C
Outer dimensions (L x W x H)	310 x 182 x 174mm (without cable)
Weight	13kg (incl. cable)
Colour	RAL 9016, traffic white
Cable connection	ESKVZ 32

10.2 Scope of delivery

Housing with socket module including feet, handle, cable, pressure compensation Ventgland and sealing cap with fixing cable.

Mounting bracket set

10.3 Degree of protection

The IP degrees of protection result from the standards DIN EN 60529. The product has been tested as follows:

IP- degree	Description
IP6X	Protection against ingress of dust - dust-tight
IPX6	Protection against strong water jets (100 l/min)
IPX7	Protection against penetration of water during complete immersion for limited time (1 meter deep for 30 minutes)

10.4 Dimensions (mm)

Dimensional drawing

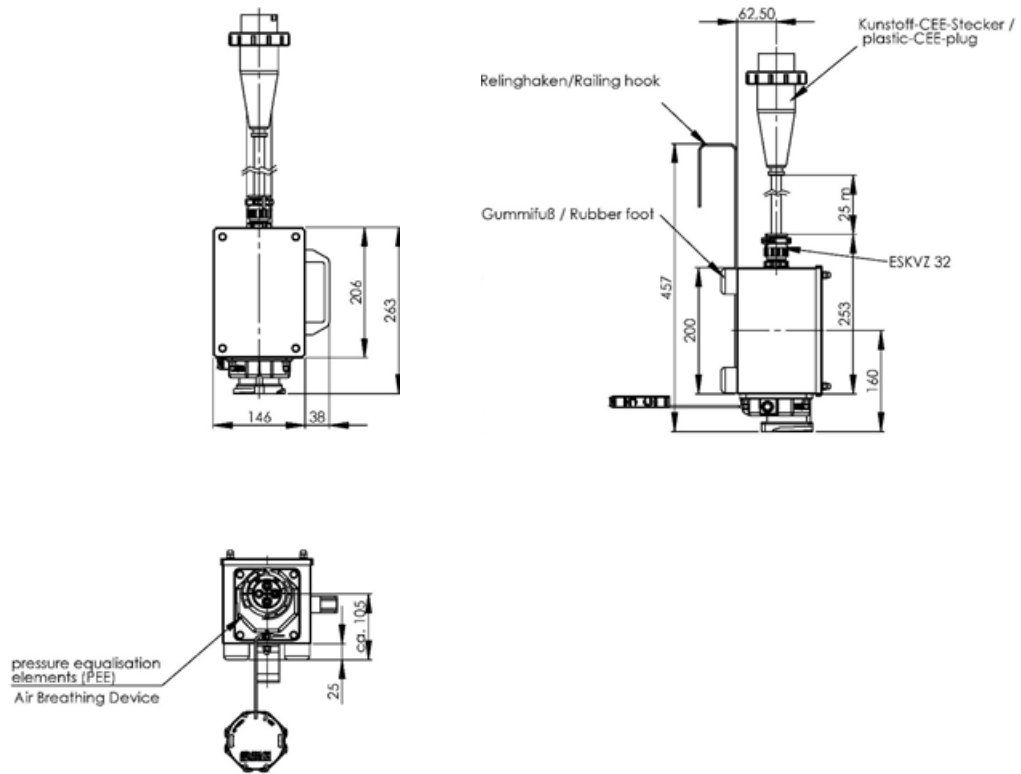



Figure 3 Dimensional drawing


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