

# WINSTA® – The Connection System

## Applications





# Contents

The <b>WINSTA</b> ® System / The <b>WINSTA</b> ® Family	02 – 03
Lighting Installation with Linect® T-Connectors, Series Circuit	04
Connecting Raised-Floor Boxes	05
Connecting Sunblind Control Distribution Boxes to Lights and Power Outlets	06
Supplying Power Outlets in Dado Trunking	07
KNX/EIB Flat Cable Installation	08
Raised-Floor Boxes	09
Ceiling Downlights Installation	10
Flat Cable for Power and Bus	11
Distribution Connector for Single-Pole Switch and Series Circuits	12
DALI Lights Installation	13
What is a <b>WINSTA</b> ® Distribution Box?	14
“Distribution Boxes” Contents	15
Single-Phase Distribution	16 – 17
Three-Phase Distribution	18 – 19
Three-Phase to Single-Phase Distribution	20 – 21
Bus/Signals	22 – 23
Single-Pole Switch Circuit	24 – 25
Series Circuit	26 – 27
Two-Way Circuit	28 – 29
Cross Circuit	30
Line and Device Protection	31
Motion and Presence Detectors	32 – 33
Overvoltage Protection	34 – 35
Relay Modules	36 – 37
EnOcean Radio Box	38 – 39
Sunblind Box	40
Custom Assembly	41

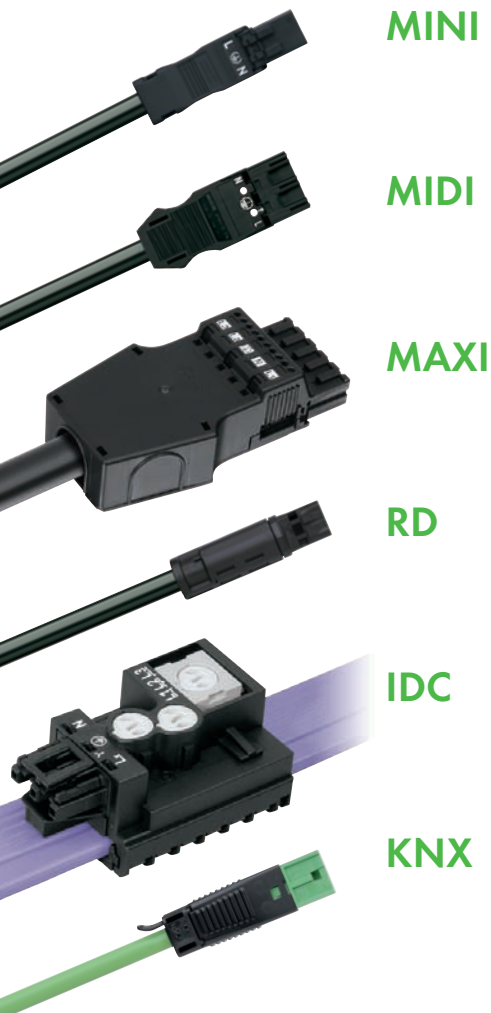
# WINSTA® – A Complete Series

Perfects the System.

## The **WINSTA®** System

forms the electrical interface from power supply and distribution to electrical loads (e.g., lights). It also encompasses data processing (bus lines in building automation).

## The **WINSTA®** Family:







By interconnecting all electrical components, WINSTA® endows modern buildings with high levels of flexibility and durability that readily satisfy stringent norms and standards.

The WINSTA® family offers a connection solution for virtually any building requirement from power supply to bus lines. Each unique WINSTA® model has been specifically developed to satisfy pole requirements, installation restrictions and current-carrying capacities.

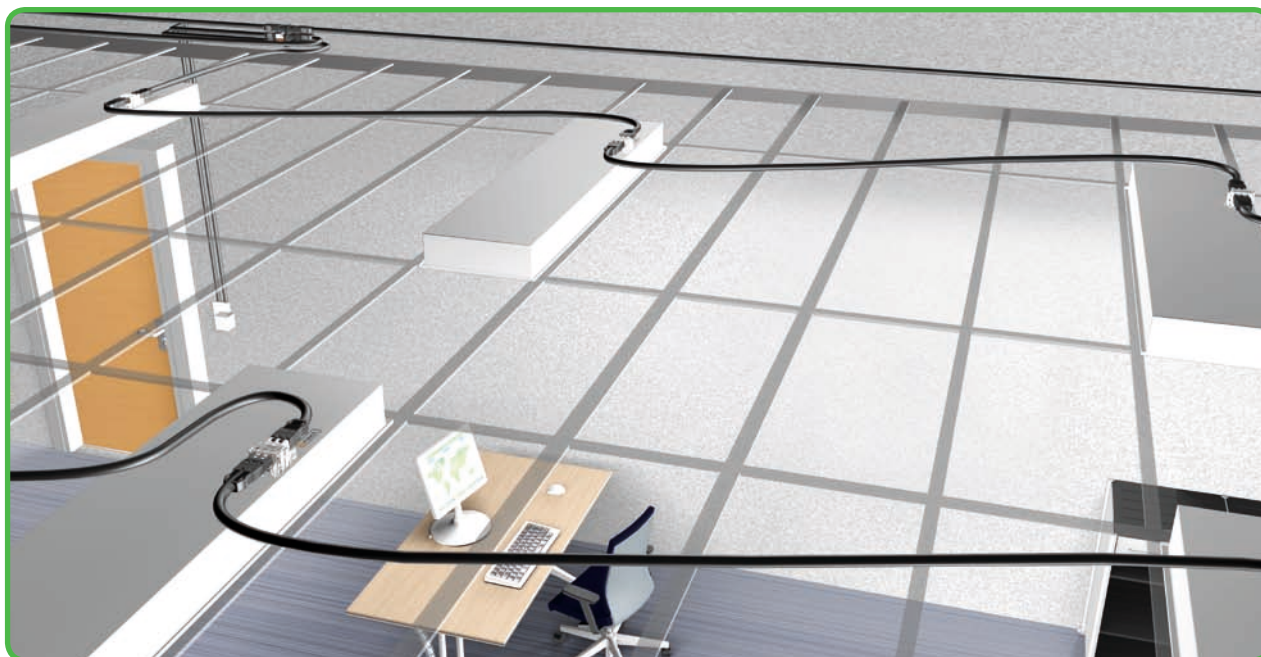
Each WINSTA® model line contains both individual components (e.g., plugs, sockets, h-distribution connectors, T-distribution connectors, distribution boxes) and cable assemblies in construction industry-standard lengths.

These 2- to 7-pole WINSTA® components are packaged upon order and provided on-site to customers.

### Comprehensive **WAGO** Project Service:







WAGO offers consulting and project planning services to help devise the best possible solution for your project. Our experienced team of professionals will gladly help you implement your project with our products.

Contact your regional agent.



## Lighting Installation with Linect® T-Connectors, Series Circuit

These ceiling lights are connected to the distribution connector via Linect® T-connectors and WINSTA® cable assemblies. The pre-assembled distribution connector for series circuit is supplied via feed and switch lines, allowing the lights to be operated in two switching groups. The circuit is flexible, quick to set up and can readily adapt to new requirements using the pluggable connector system.

Item	Item No.	Description
	<b>770-6223</b>	Linect® T-connector
	<b>770-637</b>	Distribution connector for single-pole switch and series circuits
	<b>770-623</b>	Mounting plate for distribution connectors
	<b>771-8973/206-x05</b>	Connecting cable for distribution connectors/switches, 3 x 1.5 mm <sup>2</sup>
	<b>771-9993/006-x01</b>	Interconnecting cable, plug - socket, 3 x 1.5 mm <sup>2</sup> , black
	<b>771-9993/106-x01</b>	Connecting cable for distribution connector, socket - free end, 3 x 1.5 mm <sup>2</sup> , black

x = Length in meters

**Our partners** for this type of application:

**FAGERHULT**

**RIDI**  
Licht für Mensch und Technik

**sitECO**

**TRILUX**

**ZUMTOBEL**

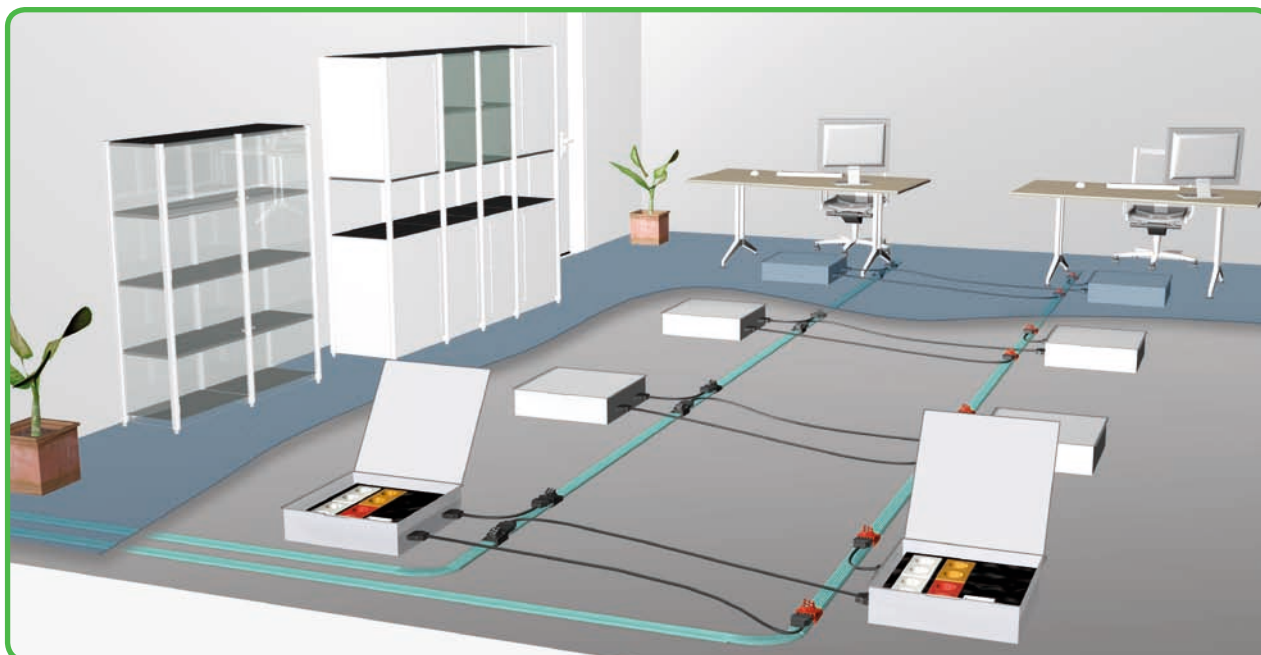
 **GLAMOX**

**THORN**

 **LUDWIG**  
LEUCHTEN  
MEHR ALS LICHT









**REGIOLUX**



## Connecting Raised-Floor Boxes

IDC flat cables provide general power supply (GPS) or safety power supply (SPS) to raised-floor boxes. For each type of supply, a flat cable line is installed in the raised floor and fed via supply modules. Tap-offs are created near the floor boxes using cable assemblies. These cable assemblies are connected to floor boxes via connectors that are 100% protected against mismatching. Floor boxes with integrated snap-in connectors can be purchased from our partners.

Item	Item No.	Description
	<b>897-251</b>	Flat cable 5 x 2.5 mm <sup>2</sup> , light green
	<b>772-263</b>	Tap-off module with phase selection, 3-pole, black
	<b>771-9993/007-x01</b>	Interconnecting cable, socket – plug, 3 x 2.5 mm <sup>2</sup> , black
	<b>772-269</b>	Tap-off module with phase selection, 3-pole, red
	<b>771-9973/007-x01</b>	Interconnecting cable, socket – plug, 3 x 2.5 mm <sup>2</sup> , black
	<b>897-250</b>	Flat cable end cover, for both cable ends

x = Length in meters

**Our partners** for this type of application:










**Electraplan**  
Solutions





## Connecting Sunblind Control Distribution Boxes to Lights and Outlets

The WINSTA® distribution box is supplied using a connecting cable and may be wired for a wide range of applications. From the standard distribution box for separate circuits to impulse current circuit up to sunblind control, everything can be implemented with the WINSTA® distribution box. Lights or sunblinds are controlled via switches. The connections are 100% protected against mismatching and an application is pre-assembled for time-saving installation and expansion.

Item	Item No.	Description
	<b>770-631/107-000</b>	Distribution box, sunblind control, single-pole switch circuit, distribution
	<b>897-453</b>	Flat cable, 5 x 4 mm <sup>2</sup> , black
	<b>897-250</b>	Flat cable end cover, for both cable ends
	<b>772-263</b>	Tap-off module with phase selection, 3-pole, for 5 x 4 mm <sup>2</sup> flat cables
	<b>771-9993/006-x01</b>	Interconnecting cable, socket - plug, 3 x 1.5 mm <sup>2</sup> , black
	<b>771-8973/206-x05</b>	Connecting cable, socket - free end, 3 x 1.5 mm <sup>2</sup> , brown
	<b>770-114</b>	Male connector with strain relief housing, 4-pole, for 9 - 13 mm cables, black






x = Length in meters





## Power Supply of Outlets in Dado Trunking

Three-phase power supply is fed as an energy bus to the room or container via WINSTA® connecting cable. Distribution to a 230V power supply is performed via pre-assembled distribution box. Power outputs are plugged into trunking outlets via pre-assembled interconnecting cables. Products of the BR netway® series are all equipped with WINSTA® connectors. The interconnecting cables are laid in dado trunking and simply plugged into the power outlets.

Item	Item No.	Description
	<b>770-631/100-000</b>	Distribution box, three-phase to single-phase distribution
	<b>770-634</b>	h-distribution connector for parallel connection of outlets, optional, 1 x IN / 2 x OUT
	<b>771-9995/107-x01</b>	Connecting cable, socket - free end, 5 x 2.5 mm², black
	<b>771-9993/007-x01</b>	Interconnecting cable, socket - plug, 3 x 2.5 mm², black
	<b>Tehalit Co.</b>	BR netway®, halogen-free, 70 mm profile depth, incl. cover and accessories
	<b>Tehalit Co.</b>	Trunking power outlet, double, with WINSTA® adapter and accessories

x = Length in meters

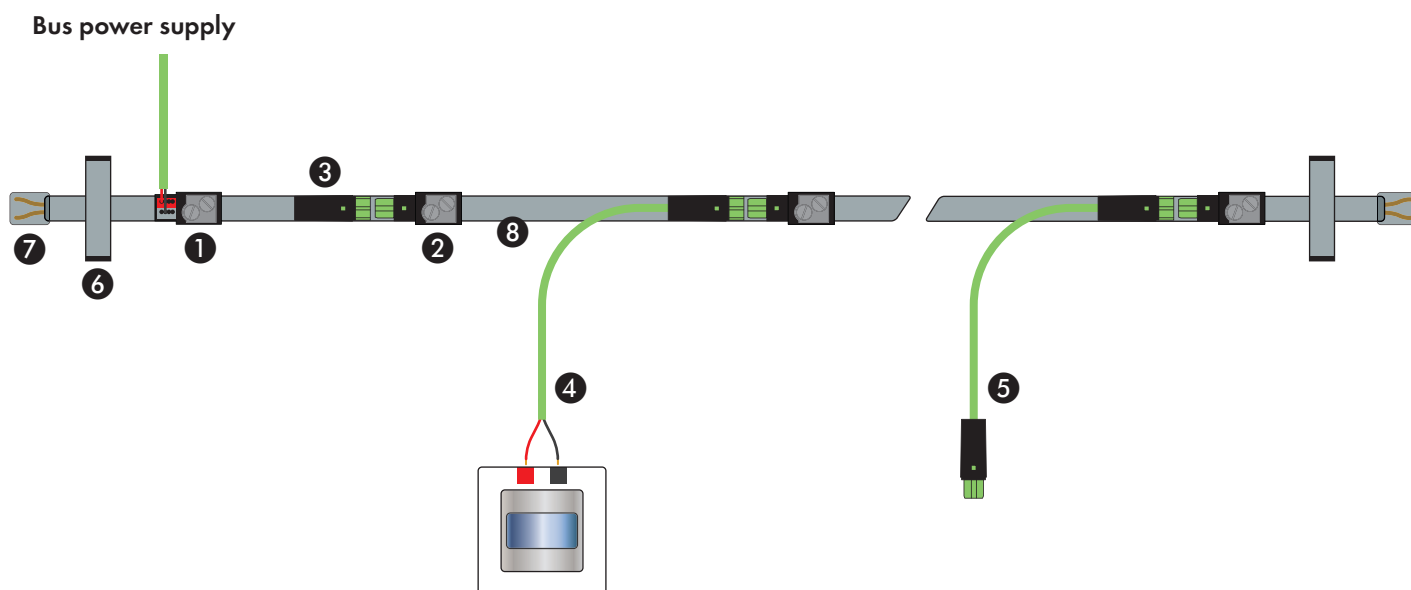
**Our partners**  
for this type of application:

**TEHALIT**

**schulte**  
elektrotechnik

**KÖNIG +**  
**NEURATH**

# KNX/EIB Flat Cable Installation



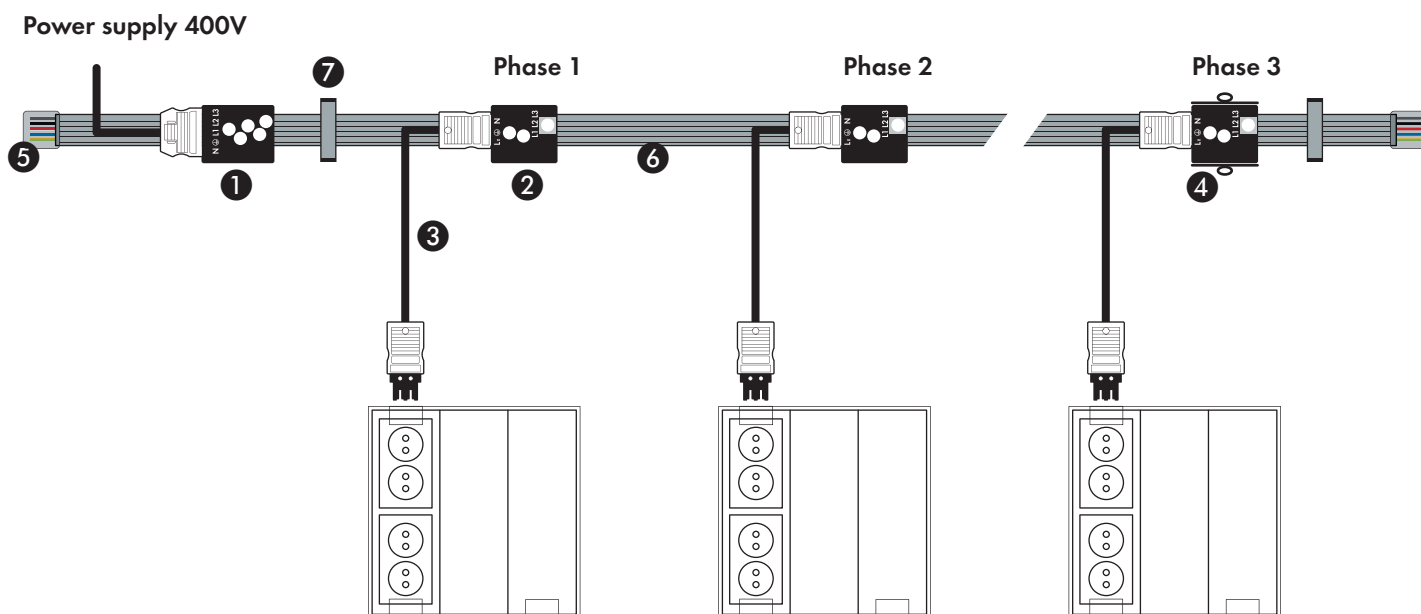
## Description:

The 2-pole flat cable is fed using a supply module and can be tapped off at any location via pluggable modules.

Item	Item Description	Coding	Item No.
1	 <b>KNX supply module,</b> with 243 Series PUSH WIRE® connectors, 2-pole		893-121
2	 <b>KNX tap-off module,</b> for connectors and cable assemblies, 2-pole, coding E	●	893-122
3	 <b>KNX plug,</b> <b>with strain relief housing,</b> for cables Ø 9 - 13 mm, 2-pole, coding E	●	893-1012
4	 <b>KNX connecting cable, 2Y(ST)2x(2x0.8)</b> plug - free end, 2-pole, coding E	●	894-8992/233-x06
5	 <b>KNX interconnecting cable, 2Y(ST)2x(2x0.8)</b> socket - plug, 2-pole, coding E	●	894-8992/033-x06
6	 <b>Fixing clamp,</b> for flat cable, plastic, for screw mounting		897-878
7	 <b>Flat cable end cover,</b> for both cable ends		897-120
8	 <b>Flat cable,</b> 2 x 1.5 mm <sup>2</sup>		897-121 PVC 897-122 halogen-free



x = Length in meters

## Raised-Floor Boxes



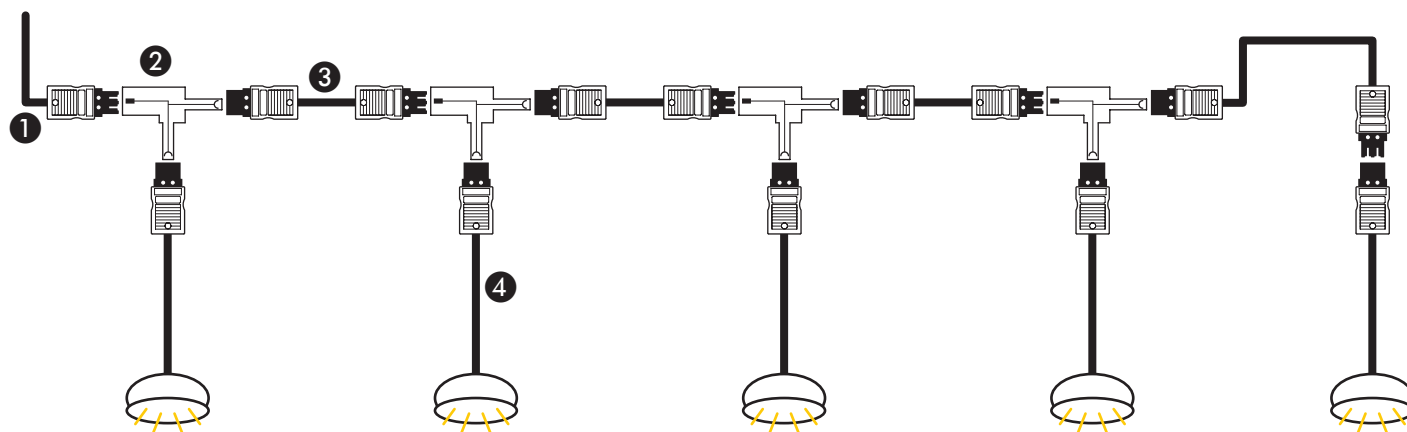
**Description:**

The 5-pole flat cable is fed using a supply module and can be tapped off at any location via pluggable modules. The tap-off module's phase selection allows three-phase network to be symmetrically loaded.

Item	Item Description	Coding	Item No.
1	 <b>Supply module,</b> with strain relief housing, for cables Ø 9 - 13 mm	●	772-261
2	 <b>Tap-off module,</b> with phase selection, 3-pole	●	772-263
3	 <b>Interconnecting cable,</b> 3 x 2.5 mm <sup>2</sup> , socket – plug, coding A	●	771-9993/007-x01
4	 <b>Mounting plate,</b> for supply and tap-off modules		772-260
5	 <b>Flat cable end cover,</b> for both cable ends		897-250
6	 <b>Flat cable,</b> 5 x 2.5 mm <sup>2</sup> , 3 L + N + PE, halogen-free 3 L + N + PE, PVC		897-253 897-251
6	 <b>Flat cable,</b> 5 x 4 mm <sup>2</sup> , 3 L + N + PE, halogen-free		897-453
7	 <b>Fixing clamp,</b> for flat cable, plastic, for screw mounting		897-878





# Ceiling Downlights Installation

Power supply 230V



## Description:

Ceiling downlights, which are factory-equipped with pluggable connectors, can be fitted with cable assemblies (1-8 m long cables) and a T-distribution connector.

Item	Item Description	Coding	Item No.
1 	<b>Connecting cable, 3 x 1.5 mm<sup>2</sup>,</b> socket - free end, coding A	●	771-9993/106-x02
2 	<b>T-distribution connector,</b> 1x plug/2x socket, with 3rd locking lever, 3-pole, coding A	●	770-615
3 	<b>Interconnecting cable, 3 x 1.5 mm<sup>2</sup>,</b> socket - plug, coding A	●	771-9993/006-x02
4 	<b>Connecting cable, 3 x 1.5 mm<sup>2</sup>,</b> plug - free end, coding A	●	771-9993/206-x02

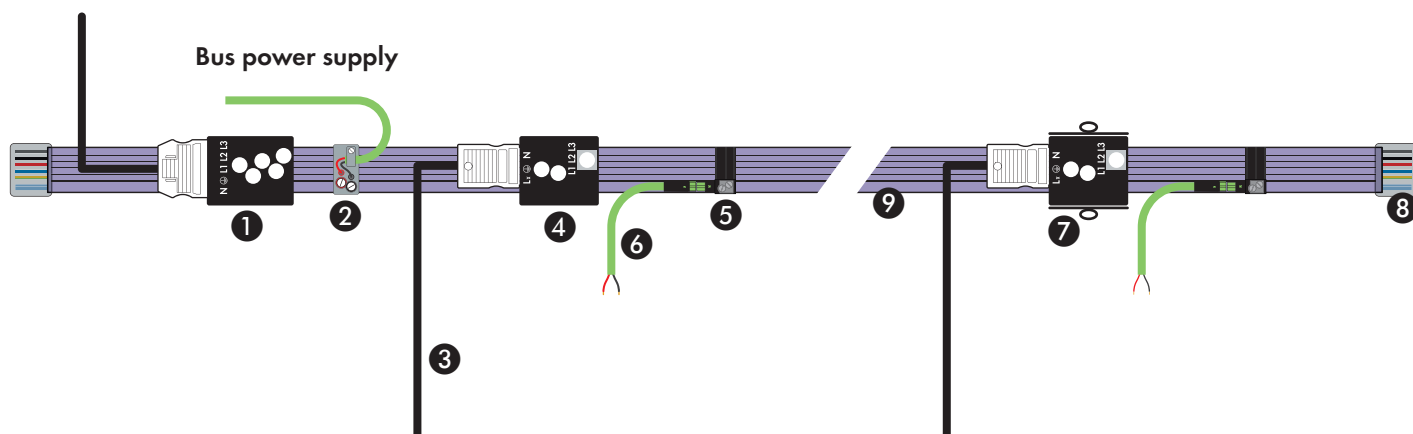
x = Length in meters



## Flat Cable for Power and Bus








Power supply 400V

Bus power supply

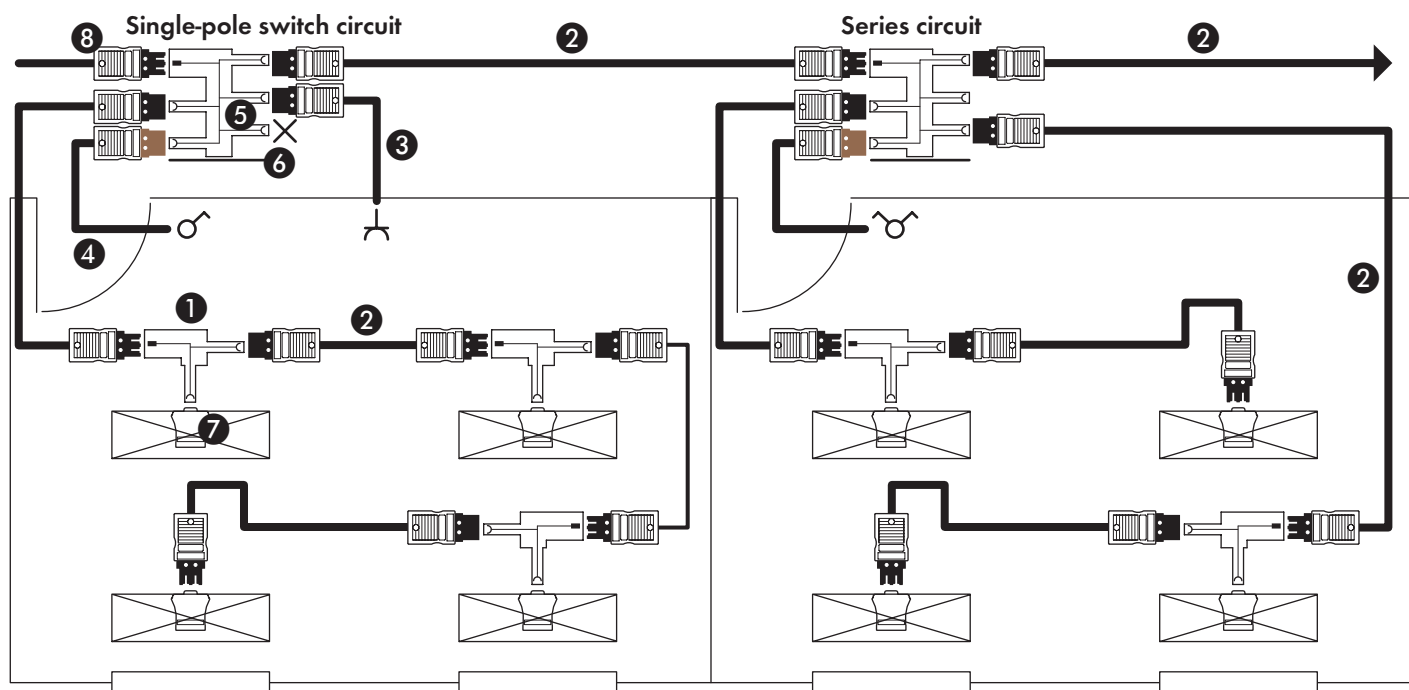


### Description:

The 7-pole flat cable is supplied with power (5 x 2.5 mm<sup>2</sup>) and bus (2 x 1.5 mm<sup>2</sup>) and can be tapped-off at any location via pluggable modules.









Item	Item Description	Coding	Item No.
1	 Supply module with strain relief housing, for cables Ø 9 - 13 mm, 5-pole		772-261
2	 Supply module for bus on flat cable, 2-pole		893-261
3	 Connecting cable, 3 x 2.5 mm <sup>2</sup> , plug - free end, coding A	●	771-9993/207-x01
4	 Tap-off module, with phase selection, 3-pole, coding A	●	772-263
5	 KNX tap-off module, for connectors and cable assemblies, 2-pole, coding E	●	893-262
6	 KNX connecting cable, 2Y(ST)2x(2x0.8) plug - free end, coding E	●	894-8992/233-x06
7	 Mounting plate, for supply and tap-off modules		772-260
8	 Flat cable end cover, for both cable ends		897-260
9	 Flat cable, 5 x 2.5 mm <sup>2</sup> + 2 x 1.5 mm <sup>2</sup> , 3 L + N + PE + 2 Bus		897-261 (PVC) 897-262 (halogen-free)

## Distribution Connector for Single-Pole Switch and Series Circuits



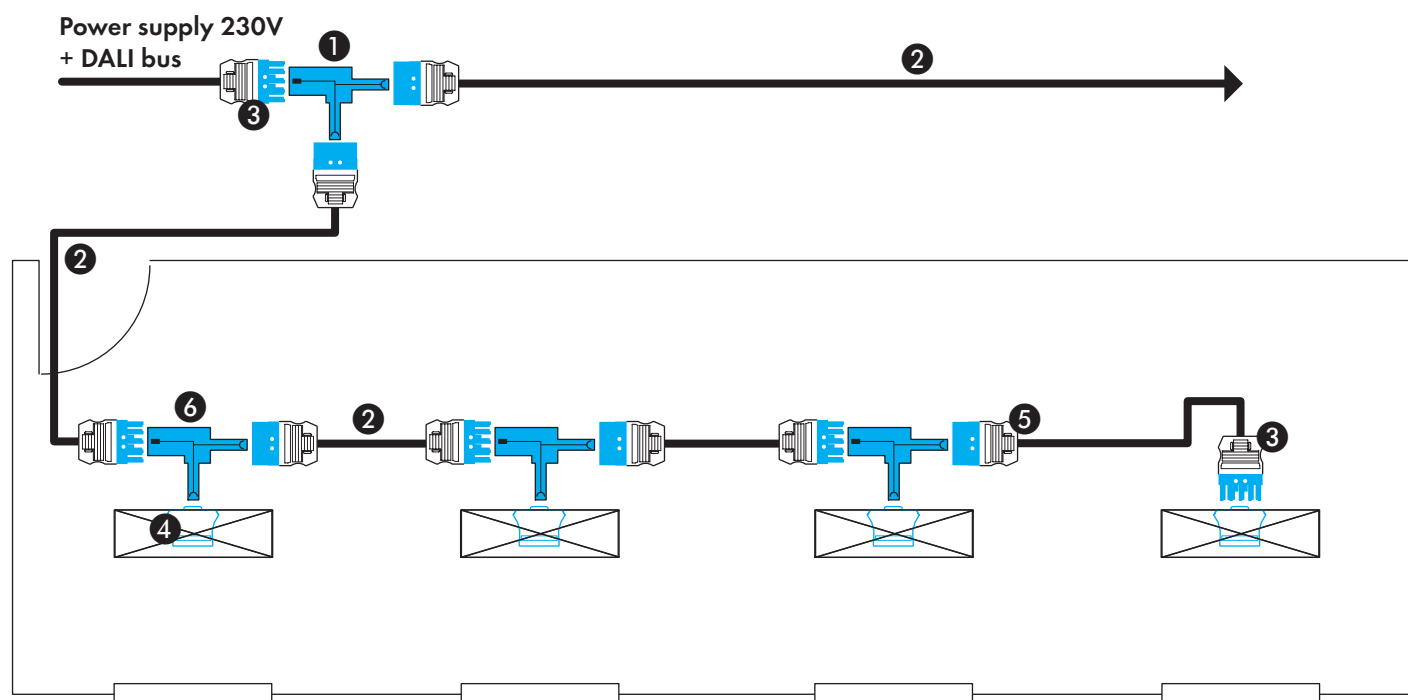
### Description:

This distribution connector has an internal single-pole switch or series circuit, enabling all cables to be connected via pluggable connectors. Connections are available for 230V through wiring, single-pole/series switch, 230V socket and two lights.

Item	Item Description	Coding	Item No.
1	 <b>T-distribution connector,</b> 1x plug/2x socket, 3-pole, coding A	●	770-606
2	 <b>Interconnecting cable,</b> 3 x 1.5 mm <sup>2</sup> , socket – plug, coding A	●	771-9993/006-x01
3	 <b>Connecting cable,</b> 3 x 1.5 mm <sup>2</sup> , plug – free end, coding A	●	771-9993/206-x02
4	 <b>Connecting cable,</b> 3 x 1.5 mm <sup>2</sup> , plug – free end, coding S	●	771-8973/206-x05
5	 <b>Distribution connector,</b> for single-pole switch and series circuits, 3-pole, coding A and S	● ●	770-637
6	 <b>Mounting plate,</b> for 3-pole distribution connectors		770-623
7	 <b>Snap-in plugs,</b> for lighting fixtures, 3-pole, coding A	●	770-713
8	 <b>Socket with strain relief housing,</b> 3-pole, for cables Ø 8 – 11.5 mm, coding A	●	770-103







x = Length in meters

## DALI Lights Installation



### Description:

Controlling lighting fixtures is performed via DALI bus. Power supply (230V) and DALI signal are combined into a single line. Lighting fixtures, which are factory-equipped with WINSTA® snap-in connectors, can be fitted with pluggable cable assemblies (1 – 8m long cables) and T-distribution connector. This wiring solution allows light dimming above 0–10V.

Item	Item Description	Coding	Item No.
1	 <b>T-distribution connector,</b> 1x plug/2x socket, with 3rd locking lever, 5-pole, coding I	●	770-620
2	 <b>Interconnecting cable,</b> 5 x 1.5 mm <sup>2</sup> , socket – plug, coding I	●	771-9985/006-x01
3	 <b>Socket with strain relief housing,</b> for self-assembly 5-pole, for cables Ø 9 – 13 mm, coding I	●	770-1105/022-000
4	 <b>Snap-in plug,</b> for lighting fixtures, 5-pole, coding I	●	770-2115
5	 <b>Plug with strain relief housing,</b> for self-assembly 5-pole, for cables Ø 9 – 13 mm, coding I	●	770-1115/022-000
6	 <b>T-distribution connector,</b> 1x plug/2x socket, with 2 locking levers, 5-pole, coding I	●	770-617

# WINSTA® Distribution Box

## Individual – Customer-Specific

For standard installations (e.g., single-pole switch, series and two-way circuits, as well as simple, single-phase or three-phase circuit distribution), the **WINSTA® System** provides a range of **compact and cost-effective distribution boxes**.

More complex applications or combinations of the above-mentioned functions can be created **quickly and easily** using WINSTA® Distribution Boxes, providing a wide variety of fully customized applications.

**A large number of versions** are available.  
A few examples can be found on the following pages.

Of course, additional **versions can be customized and produced-to-order**.  
This is either provided by WAGO as a service or the customer may **self-assemble** as shown below.

### WINSTA® Distribution Box Versions

#### Version 1:

Ready to be fitted with 2-, 3-, 4- and 5-pole WINSTA® MIDI plugs and sockets, as well as 2- and 3-pole WINSTA® MINI plugs and sockets.

#### Version 2:

Ready to be fitted with 2-, 3-, 4- and 5-pole WINSTA® MIDI plugs and sockets, 2- and 3-pole WINSTA® MINI plugs and sockets. Also compatible with DIN 35 rail-mountable electronic modules (e.g., latching relays).

### Sidewall preparation



### Sidewall insertion

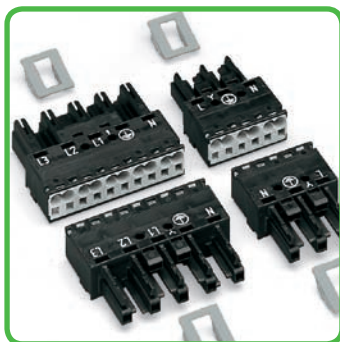




#### Distribution box accessories



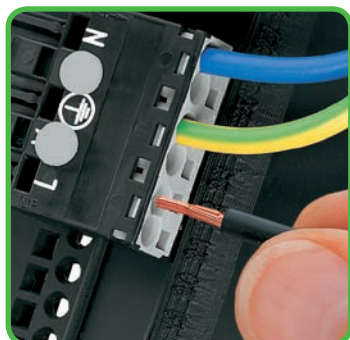
#### Assembly components



#### Fastening plugs or sockets

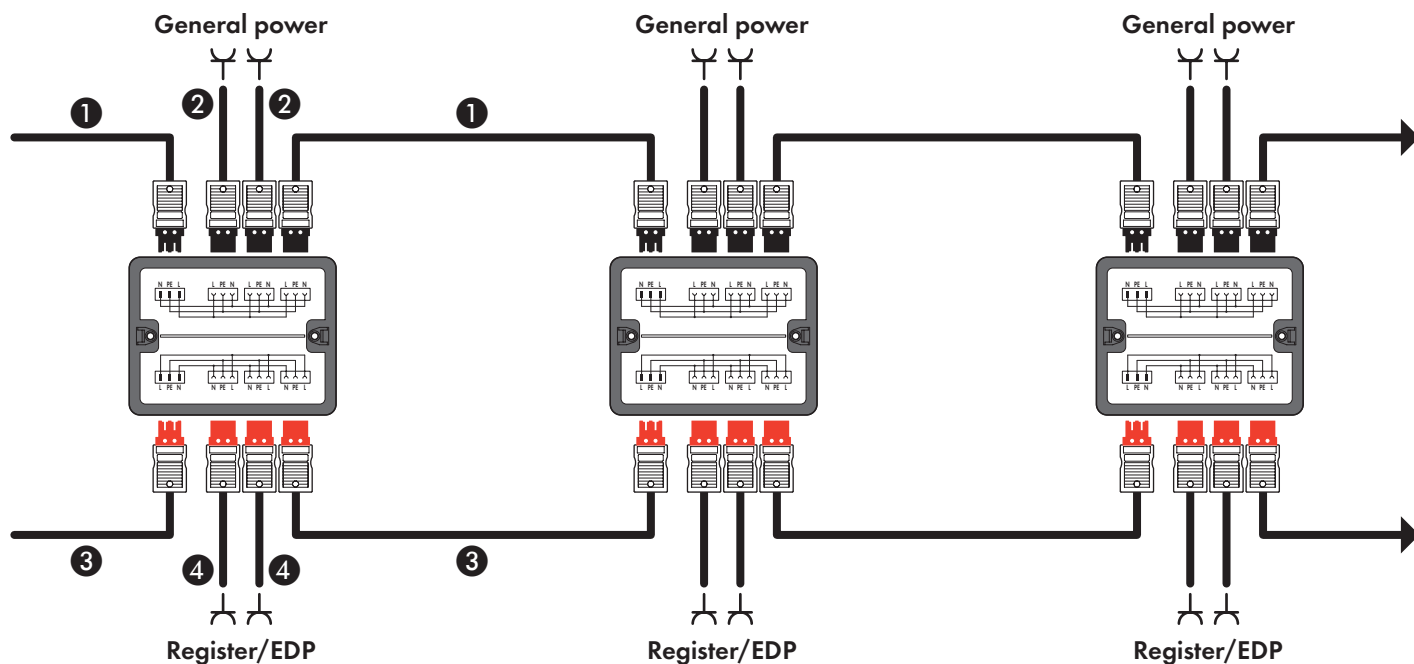


#### Internal wiring



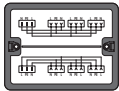




Single-Phase Distribution	16 - 17
Three-Phase Distribution	18 - 19
Three-Phase to Single-Phase Distribution	20 - 21
Bus/Signals	22 - 23
Single-Pole Switch Circuit	24 - 25
Series Circuit	26 - 27
Two-Way Circuit	28 - 29
Cross Circuit	30
Line and Device Protection	31
Motion and Presence Detectors	32 - 33
Overvoltage Protection	34 - 35
Relay Modules	36 - 37
EnOcean Radio Box	38 - 39
Blind Control	40
Custom Assembly	41

## Single-Phase Distribution (230V) · Register Area/Supermarket



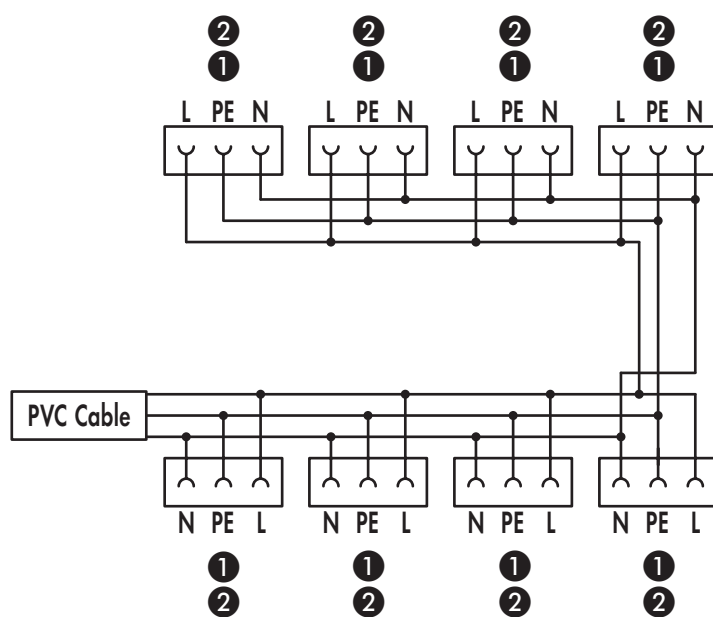
### Description:

This WINSTA® Box has two different 3-pole, single-phase circuits (e.g., for general power, EDP socket outlets, UPS systems). Both networks are provided with connectors coded in different colors. Three-pole connecting cables are provided for both power input and output.

WINSTA® Box		Item	Color	Item No.	Pack. Unit
		Distribution box, black	●	770-631/311-000	1
Item		Item Description	Coding	Item No.	
①		Interconnecting cable, 3 x 1.5 mm², socket - plug, coding A	● ○	771-9993/006-x01 771-9993/006-x02	
②		Connecting cable, 3 x 1.5 mm², plug - free end, coding A	● ○	771-9993/206-x01 771-9993/206-x02	
③		Interconnecting cable, 3 x 1.5 mm², socket - plug, coding P	●	771-9973/006-x01	
④		Connecting cable, 3 x 1.5 mm², plug - free end, coding P	●	771-9973/206-x01	

x = Length in meters

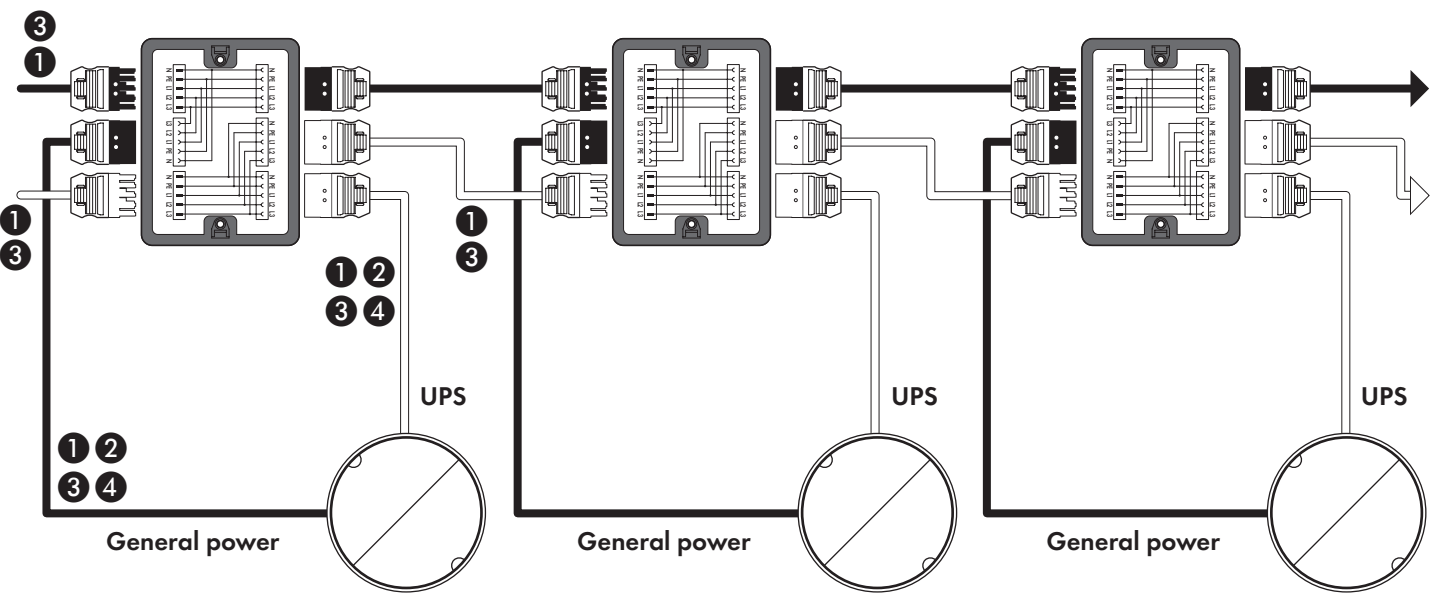
## Single-Phase Distribution (230V)



This WINSTA® Box duplicates the outputs of a 3-pole AC line. Power supply is performed via PVC sheathed cable (3 x 1.5 mm<sup>2</sup>) with angled SCHUKO plug.

[illegible]

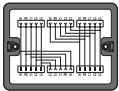




# Three-Phase Distribution (400V) · Supplying Raised-Floor Boxes



UPS = Uninterruptible Power Supply

**Description:**

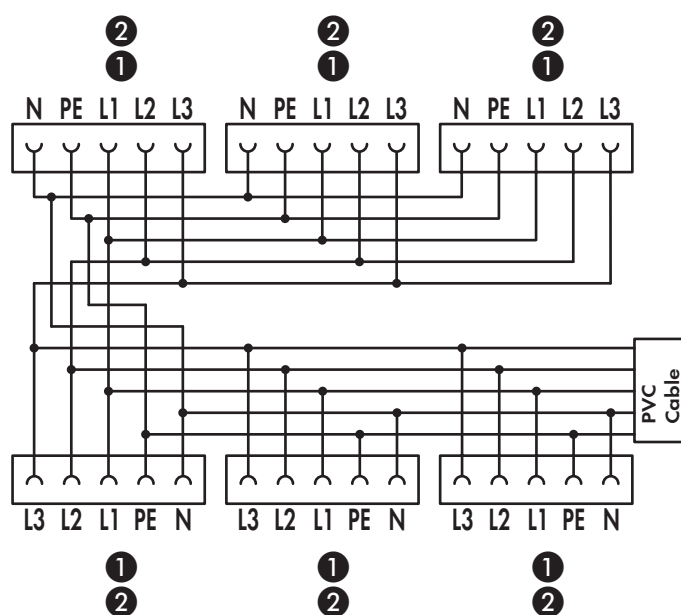
This WINSTA® Box has two different 5-pole, single-phase circuits for supplying general power and UPS raised-floor boxes. Power supply is performed via 5-pole, pluggable connecting cable. For example, both circuits can be clearly identified using black and white connectors or cables.

<div>WINSTA® Box</div> <div></div>	Item	Color	Item No.	Pack. Unit
	Distribution box, black	●	770-631/312-000	1
Item	Item Description	Coding	Item No.	
① 	Interconnecting cable, 5 x 1.5 mm², socket - plug, coding A	●	771-9995/006-x01	
		○	771-9995/006-x02	
② 	Connecting cable, 5 x 1.5 mm², plug - free end, coding A	●	771-9995/206-x01	
		○	771-9995/206-x02	
③ 	Interconnecting cable, 5 x 2.5 mm², socket - plug, coding A	●	771-9995/007-x01	
		○	771-9995/007-x02	
④ 	Connecting cable, 5 x 2.5 mm², plug - free end, coding A	●	771-9995/207-x01	
		○	771-9995/207-x02	

x = Length in meters



### Three-Phase Distribution (400V)

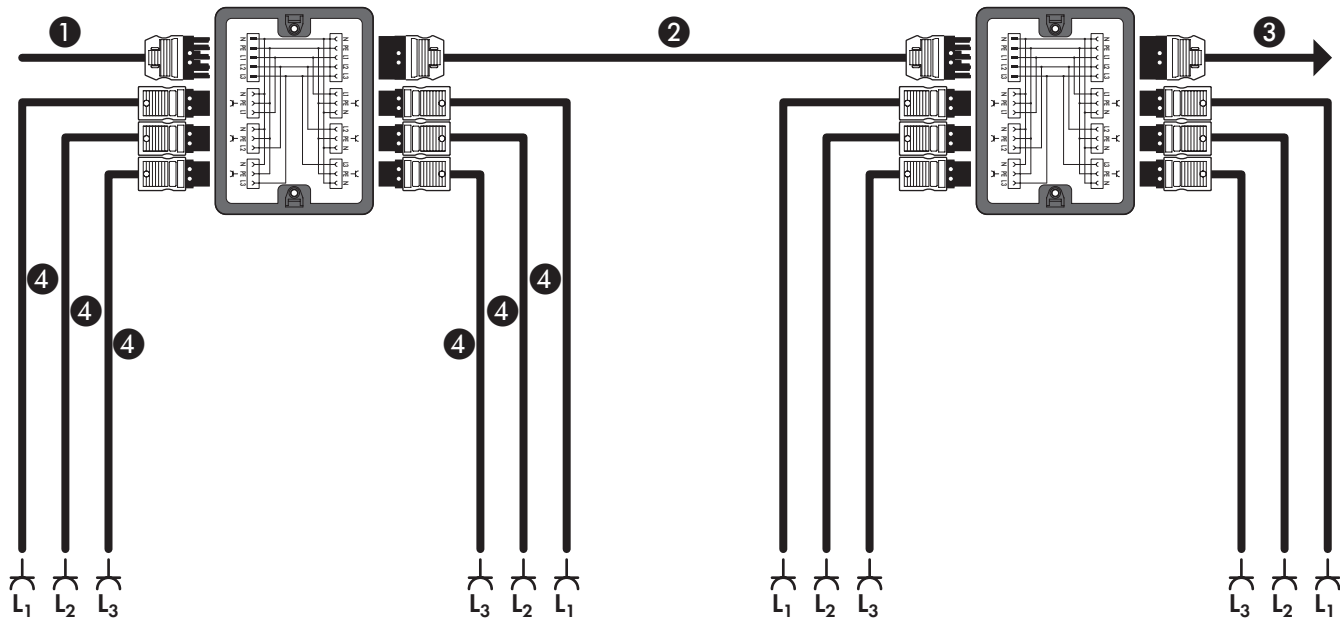


This WINSTA® Box duplicates the outputs of a 5-pole, three-phase current line. Power supply is not pluggable, but is performed via conductor termination. Strain relief is performed via cable or strain relief clamp.

[illegible]

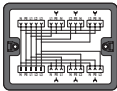




# Three-Phase to Single-Phase Distribution · Supplying Laboratory Workstations; Table Socket Outlets Supplied from the Ceiling Installation

Power supply 400V (L<sub>1</sub>, L<sub>2</sub>, L<sub>3</sub>, N, PE)



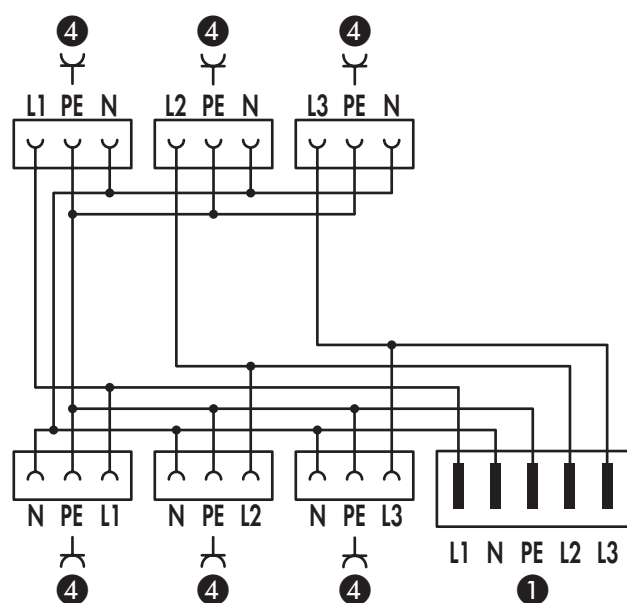
**Description:**

The 3 phases L<sub>1</sub>, L<sub>2</sub> and L<sub>3</sub> of the alternating current are divided into three AC circuits each to supply lab workstations.

<div>WINSTA® Box</div> <div></div>	Item	Color	Item No.	Pack. Unit
	Distribution box, black	●	770-631/100-000	1
Item	Item Description	Coding	Item No.	
① 	Connecting cable, 5 x 2.5 mm², socket - free end, coding A	●	771-9995/107-x01	
② 	Interconnecting cable, 5 x 2.5 mm², socket - plug, coding A	●	771-9995/007-x01	
③ 	Connecting cable, 5 x 2.5 mm², plug - free end, coding A	●	771-9995/207-x01	
④ 	Connecting cable, 3 x 2.5 mm², plug - free end, coding A	●	771-9993/207-x01	

x = Length in meters

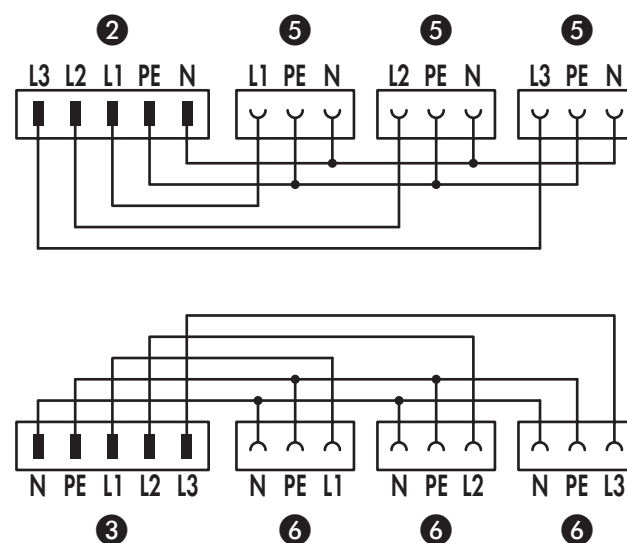
## Three-Phase to Single-Phase Distribution



### Description:

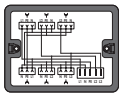

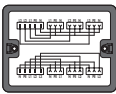













This WINSTA® Box divides a 3-phase circuit into 2x three single-phase circuits. Power supply is performed via 6 mm<sup>2</sup> cable equipped with WINSTA® MAXI connector.

## Three-Phase to Single-Phase Distribution

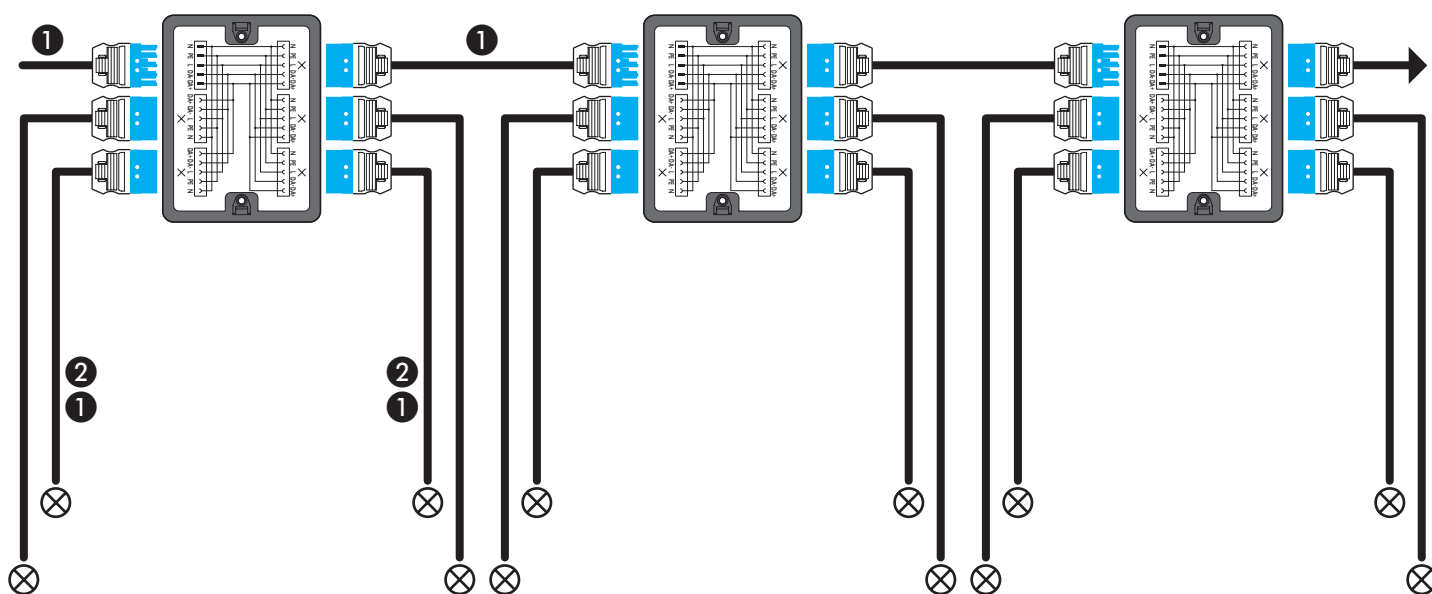


### Description:

This WINSTA® Box divides two 3-phase circuits into three single-phase circuits each (e.g., standard 230V and EDP).

WINSTA® Box		Color	Item No.	Pack. Unit	WINSTA® Box		Color	Item No.	Pack. Unit
			770-681/120-000	1				770-631/302-000	1
Item	Item Description				Coding	Item No.			
①	 <b>Socket with strain relief housing,</b> with locking levers, 5-pole, for cables Ø 13 - 18 mm coding A					831-3105/019-050			
②	 <b>Connecting cable, 5 x 2.5 mm²,</b> socket - free end, coding A					771-9995/107-x01			
③	 <b>Connecting cable, 5 x 2.5 mm²,</b> socket - free end, coding P					771-9975/107-x01			
④	 <b>Connecting cable, 3 x 2.5 mm²,</b> plug - free end, coding A					771-9993/207-x02			
⑤	 <b>Connecting cable, 3 x 2.5 mm²,</b> plug - free end, coding A					771-9993/207-x01			
⑥	 <b>Connecting cable, 3 x 2.5 mm²,</b> plug - free end, coding A					771-9973/207-x01			

## Distribution, DALI



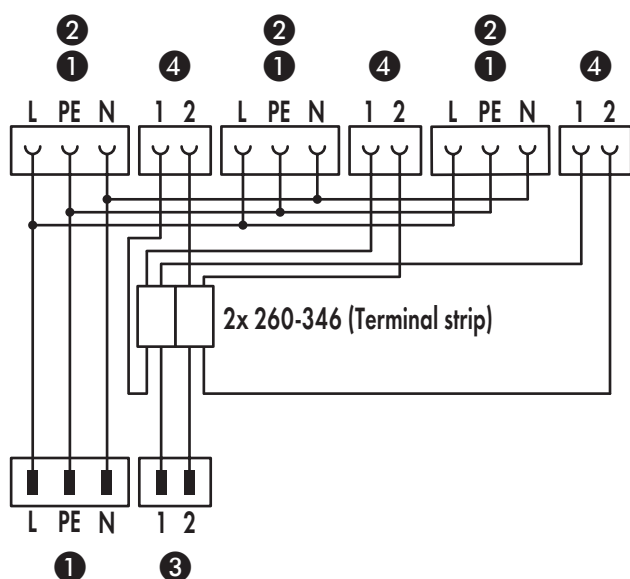
**Description:**

This WINSTA® Box connects 5-pole DALI lights; 230V power supply and DALI bus for light scene control are combined into a single line. Both supply and output cables are equipped with pluggable connectors.

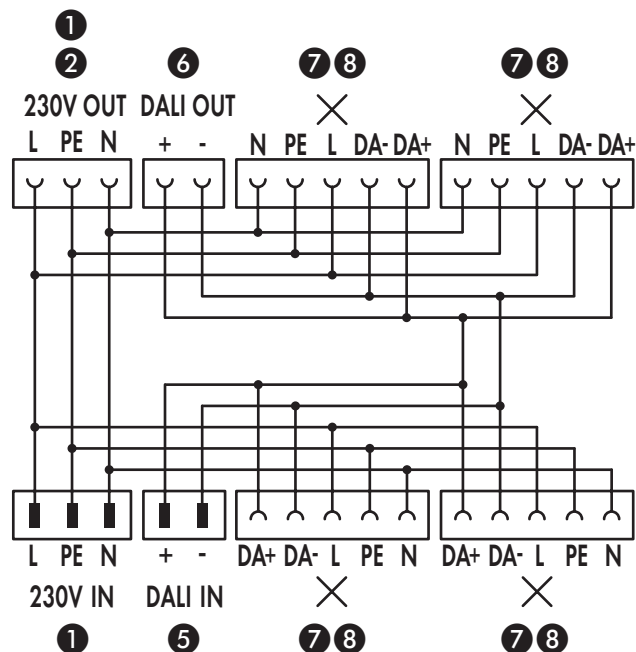
[illegible]

$x$  = Length in meters

## Distribution, 230V + Signal Line



## Distribution, 230V + DALI

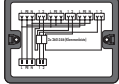
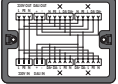






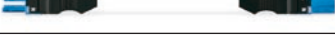



### Description:

This WINSTA® Box duplicates both 3-pole power supply (230 V) and signal line (0-10 V). All cables are equipped with pluggable connectors.

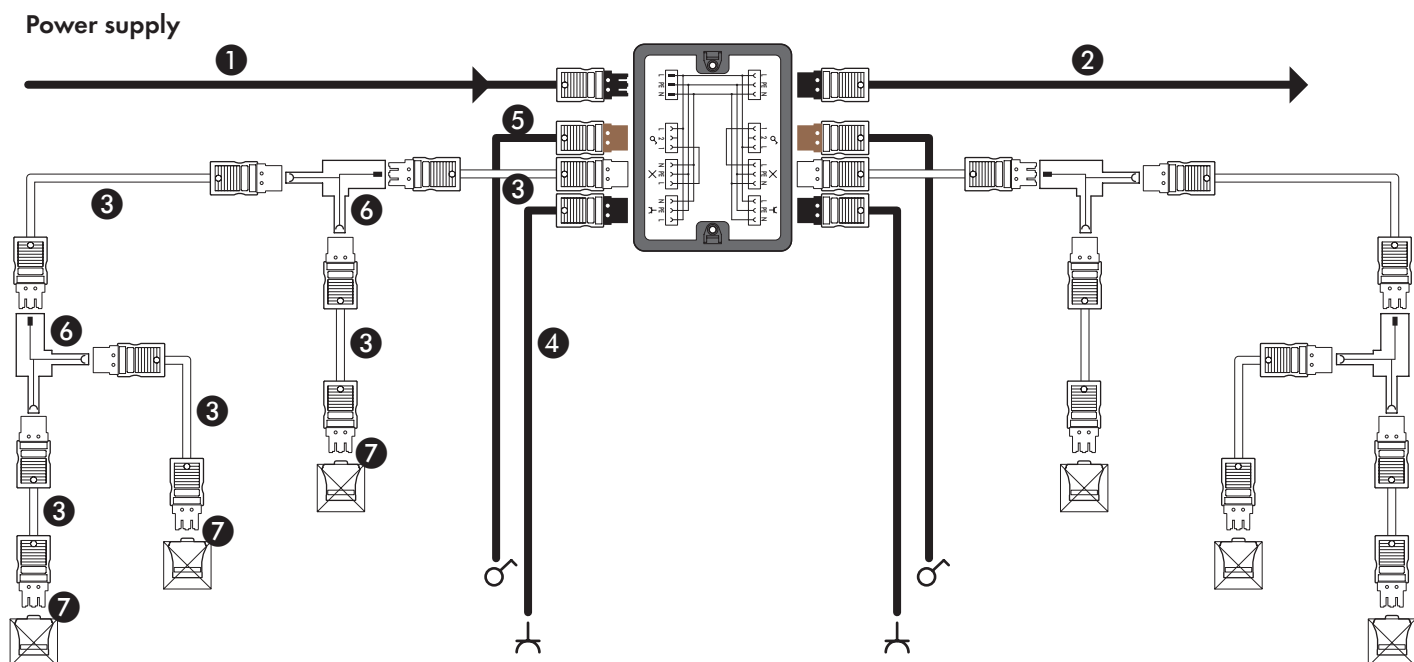
### Description:

This WINSTA® Box connects 5-pole DALI lights. Power supply is performed using 2 cables (230V and DALI) equipped with pluggable connectors.

WINSTA® Box	Color	Item No.	Pack. Unit	WINSTA® Box	Color	Item No.	Pack. Unit
	●	770-631/303-000	1		●	770-631/181-000	1
Item	Item Description			Coding	Item No.		
① 	Interconnecting cable, 3 x 1.5 mm <sup>2</sup> , socket - plug, coding A			● ○	771-9993/006-x01 771-9993/006-x02		
② 	Connecting cable, 3 x 1.5 mm <sup>2</sup> , plug - free end, coding A			● ○	771-9993/206-x01 771-9993/206-x02		
③ 	Connecting cable, 2 x 1 mm <sup>2</sup> , socket - free end, coding A			● ○	891-8992/105-x01 891-8992/105-x02		
④ 	Connecting cable, 2 x 1 mm <sup>2</sup> , plug - free end, coding A			● ○	891-8992/205-x01 891-8992/205-x02		
⑤ 	Connecting cable, 2 x 1 mm <sup>2</sup> , socket - free end, coding I			●	891-8982/105-x01		
⑥ 	Connecting cable, 2 x 1 mm <sup>2</sup> , plug - free end, coding I			●	891-8982/205-x01		
⑦ 	Interconnecting cable, 5 x 1.5 mm <sup>2</sup> , socket - plug, coding I			●	771-9985/006-x01		
⑧ 	Connecting cable, 5 x 1.5 mm <sup>2</sup> , plug - free end, coding I			●	771-9985/206-x01		



## Single-Pole Switch Circuit · Office Lights and Wall Sockets



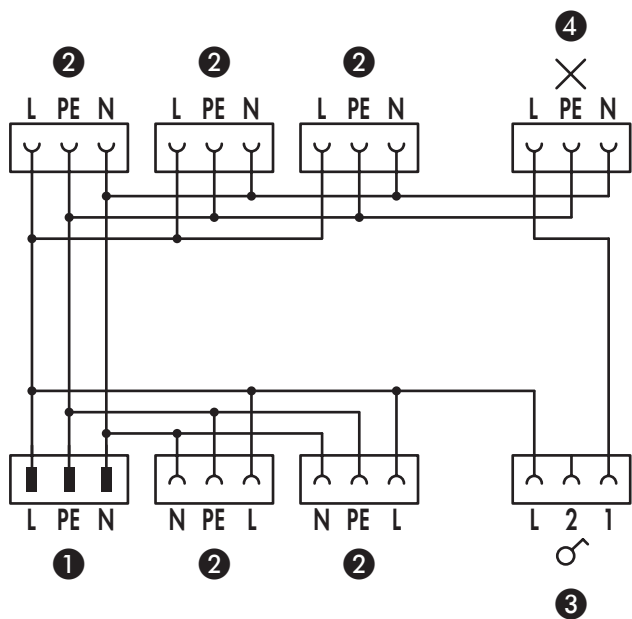
### Description:

Office with two entrance doors. Lights can be switched for half of the room from each door. Each door features a power outlet.

WINSTA® Box		Item	Color	Item No.	Pack. Unit
		Distribution box, black	●	770-631/110-000	1
Item		Item Description	Coding	Item No.	
①		Connecting cable, 3 x 2.5 mm², socket - free end, coding A	●	771-9993/107-x01	
②		Connecting cable, 3 x 2.5 mm², plug - free end, coding A	●	771-9993/207-x01	
③		Interconnecting cable, 3 x 1.5 mm², socket - plug, coding A	○	771-9993/006-x02	
④		Connecting cable, 3 x 1.5 mm², plug - free end, coding A	●	771-9993/206-x01	
⑤		Connecting cable, 3 x 1.5 mm², plug - free end, coding S	●	771-8973/206-x05	
⑥		T-distribution connector, 1x plug/2x socket, 3-pole, coding A	○	770-665	
⑦		Snap-in plug, 3-pole, coding A	○	770-733	

x = Length in meters

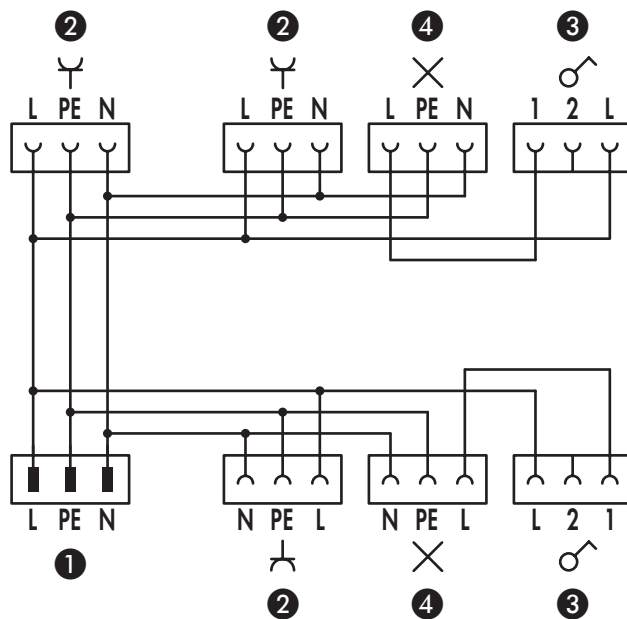
## Single-Pole Switch Circuit and Power Outlets



**Description:**

### Single-pole switch circuit with additional power outlets.

## Two Single-Pole Switch Circuits and Power Outlets

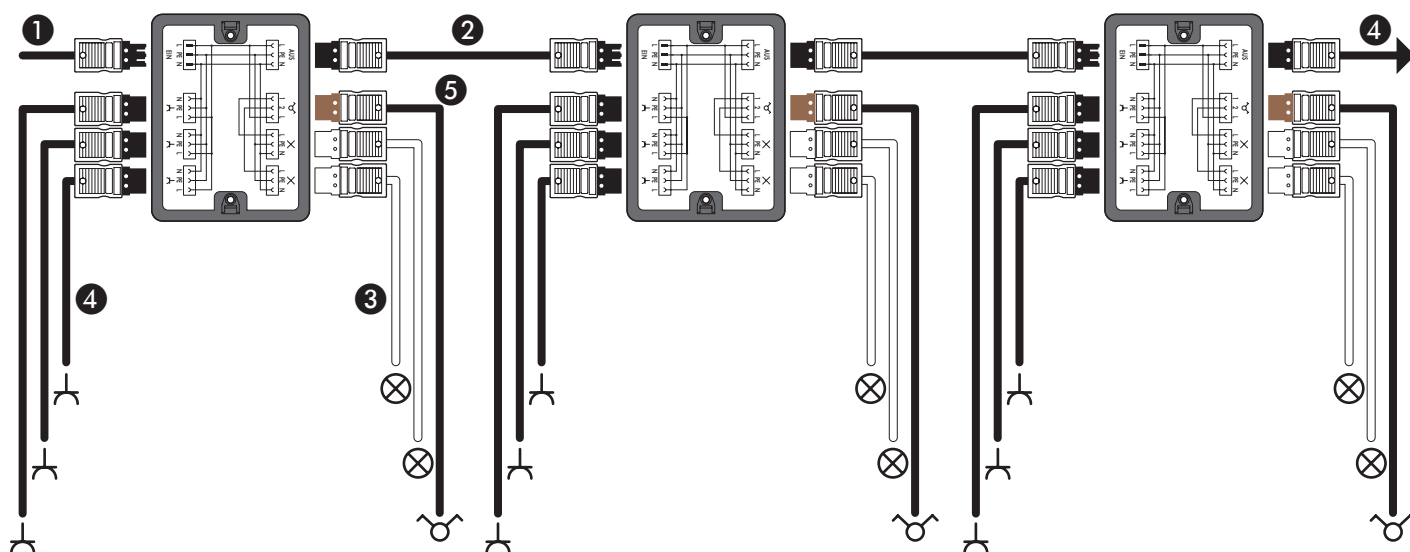


**Description:**

Double, single-pole switch circuit with several power outlets.

[illegible]

## Series Circuit and Power Outlets



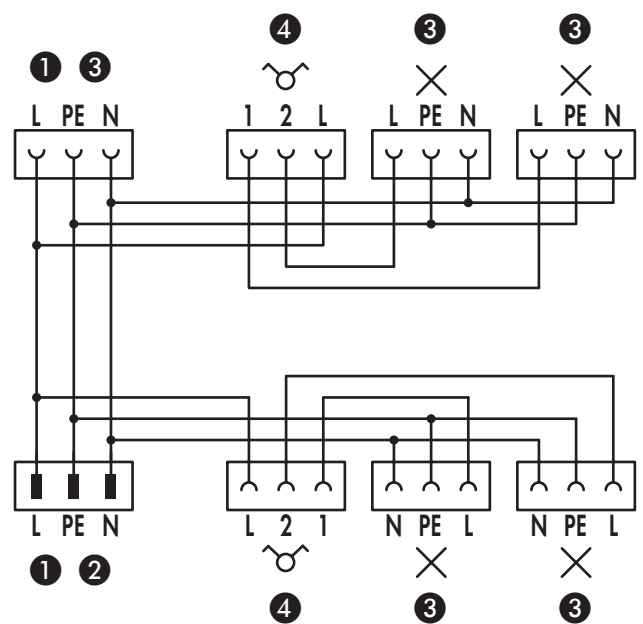
### Description:

This WINSTA® Box is equipped for power outlets, series circuit and through wiring connection.

WINSTA® Box		Item	Color	Item No.	Pack. Unit
		Distribution box, black	●	770-631/130-000	1
Item		Item Description	Coding	Item No.	
①		Connecting cable, 3 x 1.5 mm <sup>2</sup> , socket - free end, coding A	● ○	771-9993/106-x01 771-9993/106-x02	
②		Interconnecting cable, 3 x 1.5 mm <sup>2</sup> , socket - plug, coding A	● ○	771-9993/006-x01 771-9993/006-x02	
③		Plug with strain relief housing, 3-pole, coding A	○	771-9993/206-x02	
④		Connecting cable, 3 x 1.5 mm <sup>2</sup> , plug - free end, coding A	● ○	771-9993/206-x01 771-9993/206-x02	
⑤		Connecting cable, 3 x 1.5 mm <sup>2</sup> , plug - free end, coding S	●	771-8973/206-x04	

x = Length in meters

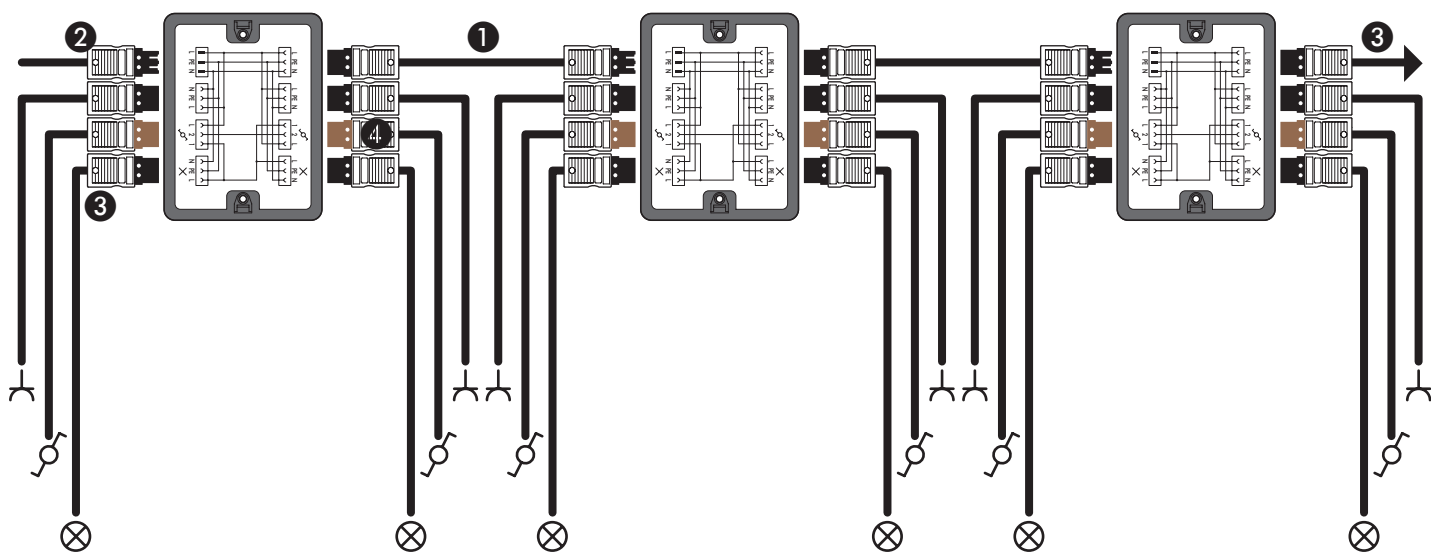
## Double Series Circuit



This WINSTA® Box is suited for the pluggable connection of two series circuits.

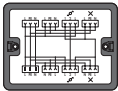



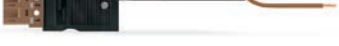
[illegible]

# Two-Way Circuit and Power Outlets



### Description:

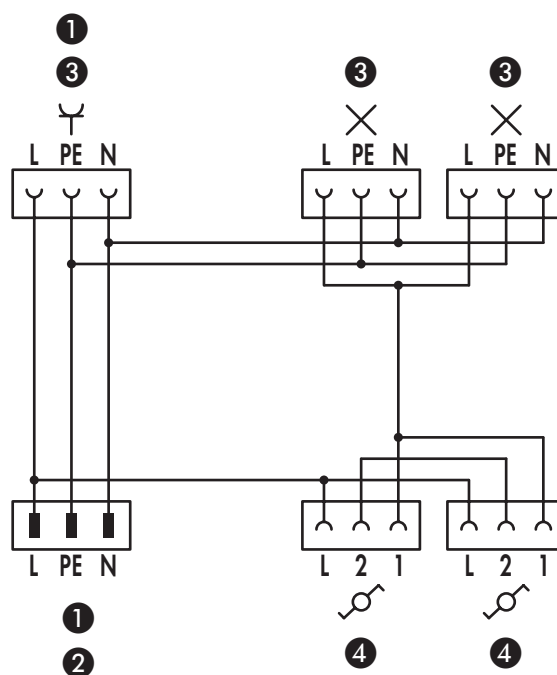
This WINSTA® Box is equipped with a two-way circuit and power outlet connections.

<div>WINSTA® Box</div> <div></div>	Item	Color	Item No.	Pack. Unit
	Distribution box, black	●	770-631/189-000	1
Item	Item Description	Coding	Item No.	
① 	Interconnecting cable, 3 x 1.5 mm <sup>2</sup> , socket – plug, coding A	●	771-9993/006-x01	
② 	Connecting cable, 3 x 1.5 mm <sup>2</sup> , socket – free end, coding A	● ○	771-9993/106-x01 771-9993/106-x02	
③ 	Connecting cable, 3 x 1.5 mm <sup>2</sup> , plug – free end, coding A	● ○	771-9993/206-x01 771-9993/206-x02	
④ 	Connecting cable, 3 x 1.5 mm <sup>2</sup> , plug – free end, coding S	●	771-8973/206-x05	

x = Length in meters



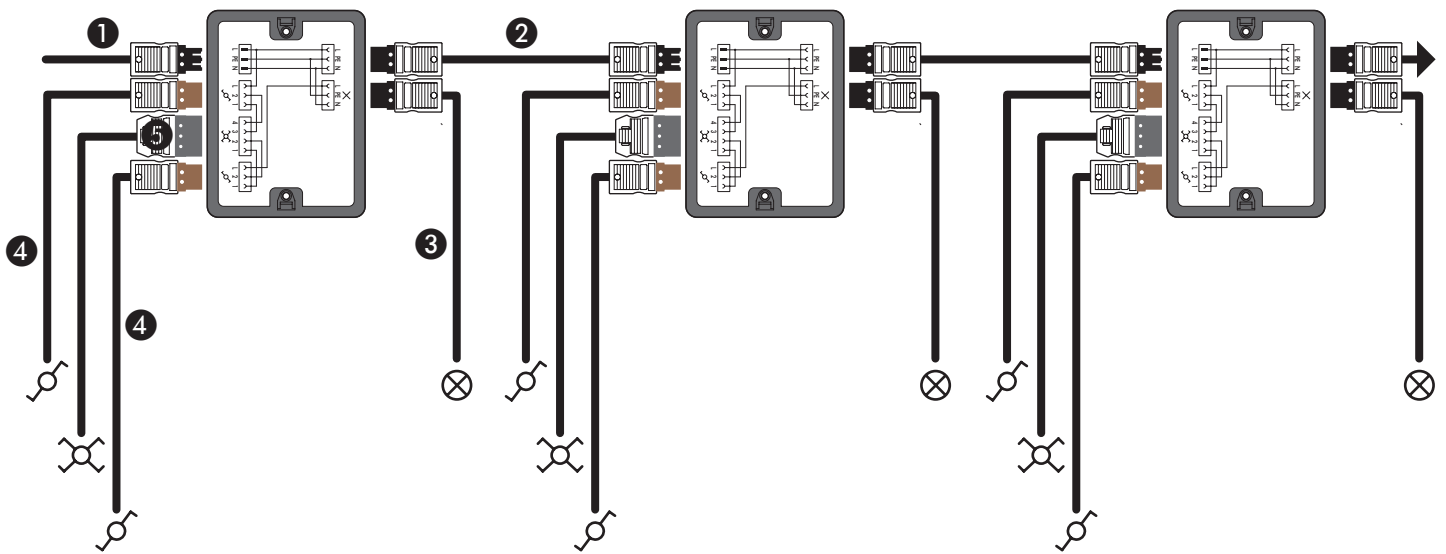
## Two-Way Circuit



**Description:**  
This WINSTA® Box is designed as two-way circuit with 2 lights.  
Power supply is performed as through wiring connection.

[illegible]

## Cross Circuit



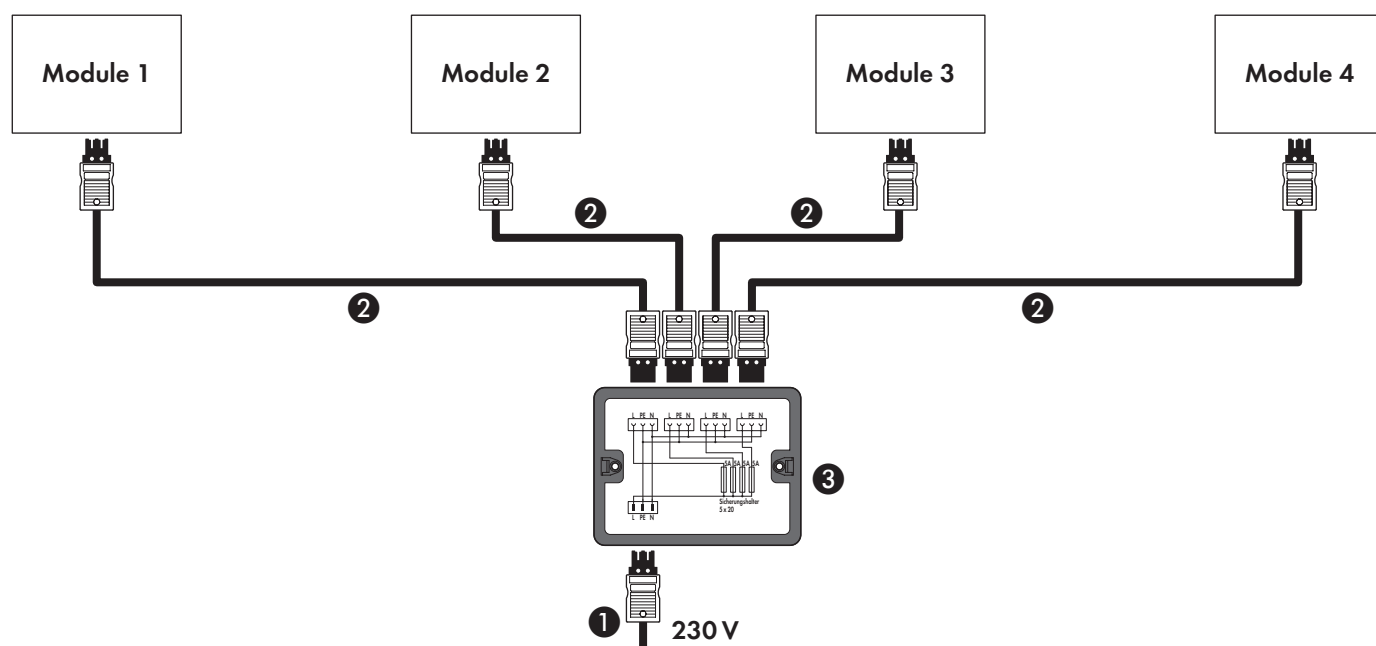
### Description:

This WINSTA® Box is equipped with a cross circuit.

WINSTA® Box		Item	Color	Item No.	Pack. Unit
		Distribution box, black	●	770-631/305-000	1
Item		Item Description	Coding	Item No.	
①		Connecting cable, 3 x 1.5 mm², socket - free end, coding A	● ○	771-9993/106-x01 771-9993/106-x02	
②		Interconnecting cable, 3 x 1.5 mm², socket - plug, coding A	● ○	771-9993/006-x01 771-9993/006-x02	
③		Connecting cable, 3 x 1.5 mm², plug - free end, coding A	● ○	771-9993/206-x01 771-9993/206-x02	
④		Connecting cable, 3 x 1.5 mm², plug - free end, coding S	●	771-8973/206-x05	
⑤		Plug with strain relief housing, for self-assembly 4-pole, for cables Ø 9 - 13 mm, coding B	●	770-254 770-504	(Plug) (Housing)

x = Length in meters

## Line and Device Protection · Fuse Protection for Device Components

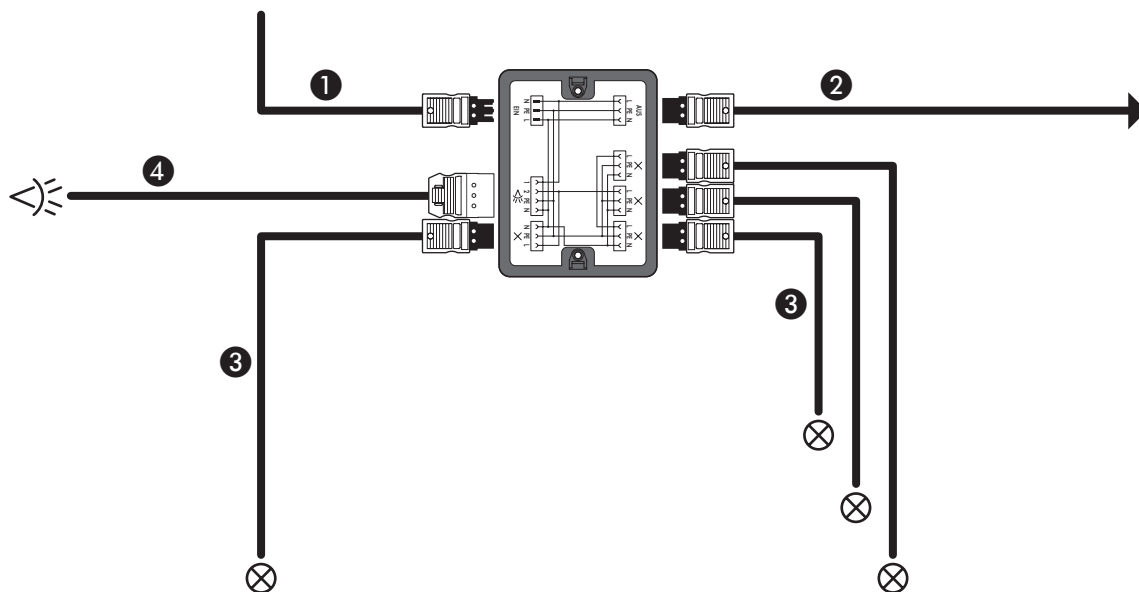


**Description:**

This WINSTA® Box is suited for protecting four components within a device (5 x 20 mm fuse holder). Power supply is performed via 3-pole connecting cable.

[illegible]

## Motion Detector



**Description:**

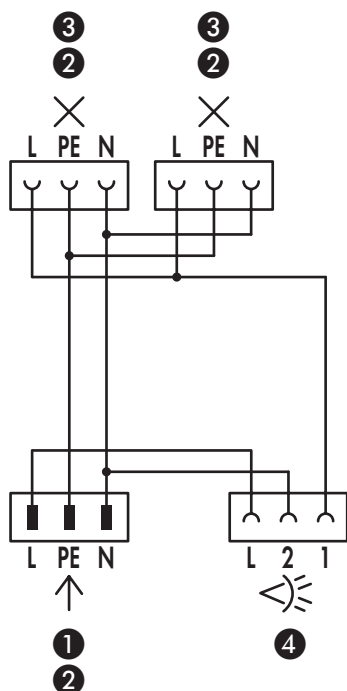
This WINSTA® Box is designed for a motion detector. Up to 4 lights can be connected. Power supply is designed as a through wiring connection.

[illegible]

---

**x = Length in meters**

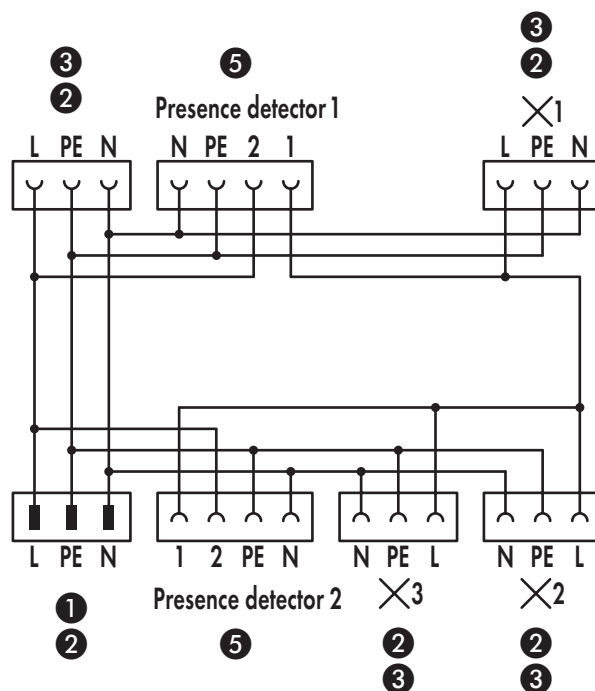
## Motion and Presence Detectors



### Description:

This WINSTA® Box is suited for the pluggable connection of a motion detector and two lights.

## Two Presence Detectors



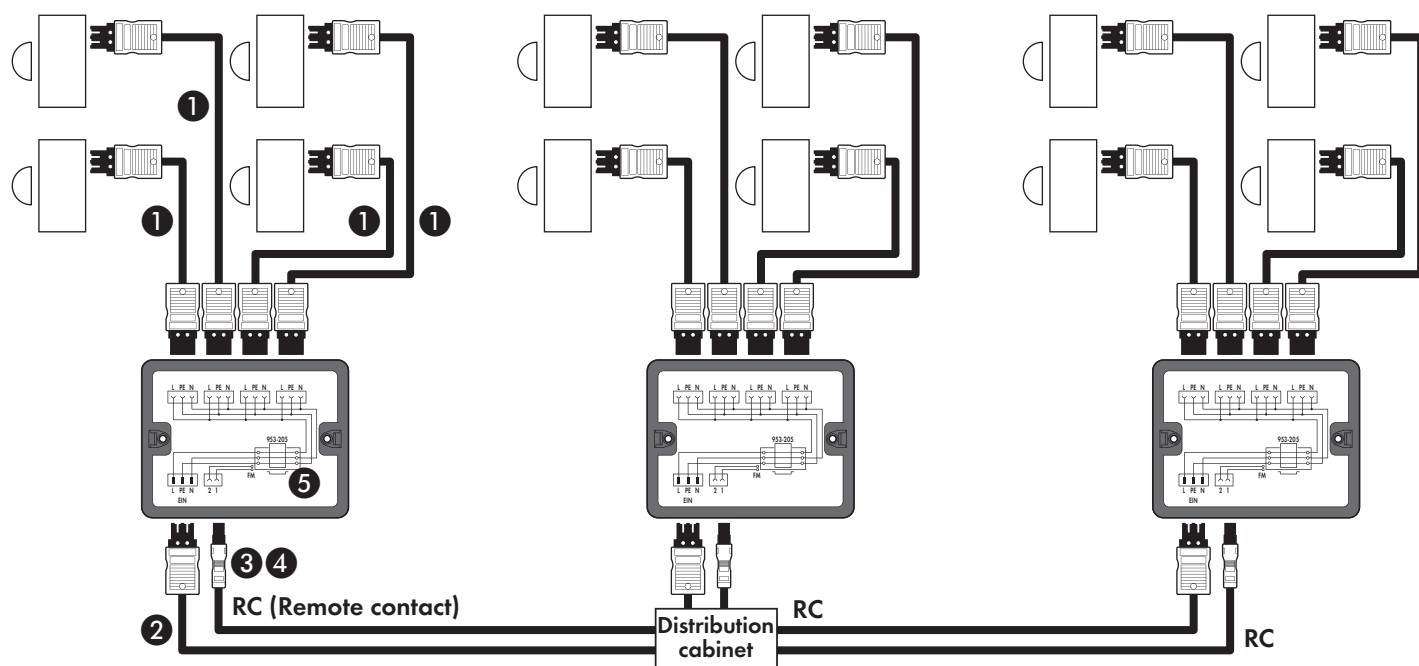
### Description:

This WINSTA® Box is equipped for the pluggable connection of two presence detectors.

WINSTA® Box		Color	Item No.	Pack. Unit	WINSTA® Box		Color	Item No.	Pack. Unit
		●	770-631/309-000	1			●	770-631/310-000	1
Item	Item Description				Color	Item No.			
①					●	771-9993/106-x01			
					○	771-9993/106-x02			
②					●	771-9993/006-x01			
					○	771-9993/006-x02			
③					●	771-9993/206-x01			
					○	771-9993/206-x02			
④					●	771-8973/206-x04			
					○	771-9994/206-x02			
⑤					○	771-9994/206-x02			

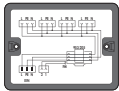







## Overvoltage Protection (Type 3) · Supplying Lab Work Stations



### Description:

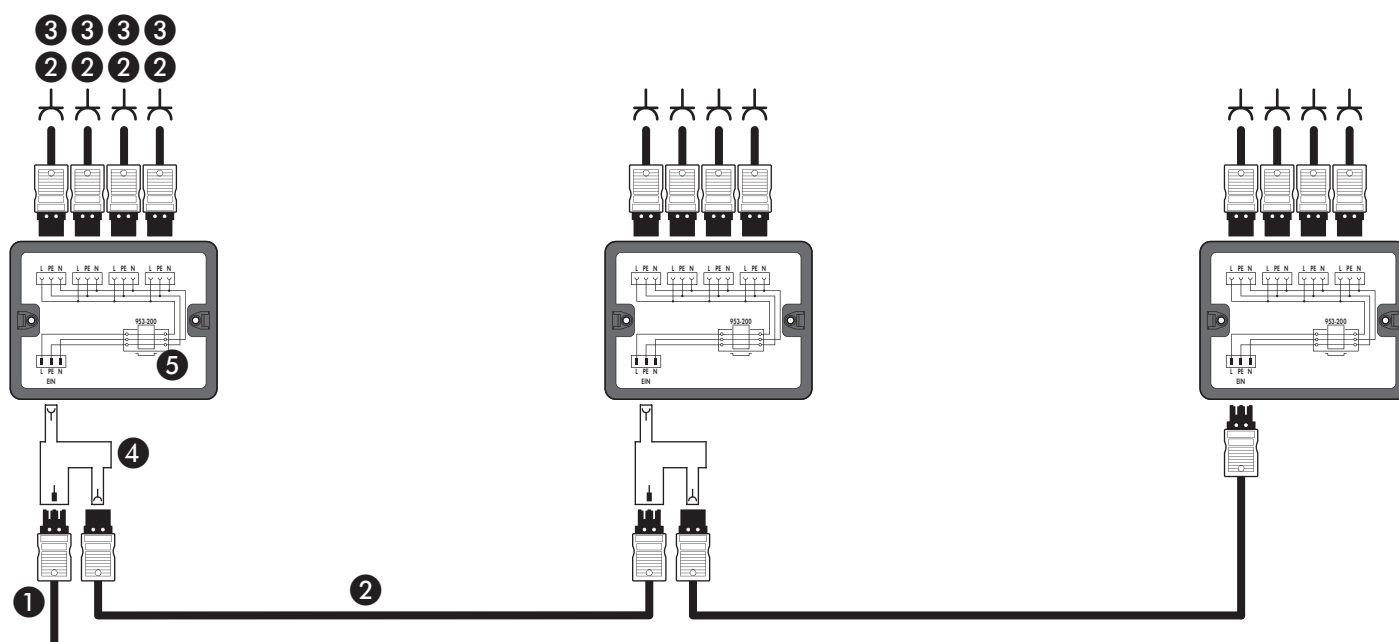
This WINSTA® Box is equipped with a "Type 3" surge suppression device (Dehn 953 205) allowing four pluggable outputs to be protected. The 2-pole, potential-free remote contact signals the status of the surge suppression device. Power supply is performed using a 3-pole connecting cable.

WINSTA® Box		Item	Color	Item No.	Pack. Unit
		Distribution box, black	●	770-632/100-000	1
Item		Item Description	Coding	Item No.	
①		Interconnecting cable, 3 x 1.5 mm <sup>2</sup> , socket – plug, coding A	●	771-9993/006-x01	
			○	771-9993/006-x02	
②		Connecting cable, 3 x 1.5 mm <sup>2</sup> , socket – free end, coding A	●	771-9993/106-x01	
			○	771-9993/106-x02	
③		Strain relief housing, 2-pole		890-502	
④		Plug, 2-pole, coding B	●	890-252	
⑤		DEHNrail M 2P 255 (FM) Item no. 953 205  Two-pole surge arrester for protecting industrial electronic devices, with remote contact for monitoring device(potential-free changeover contact)	Technical Data <sup>1</sup> DEHNrail		
			Surge arrester (SPD)		
			acc. to EN 61643-11/IEC 61643-1 Type 3/Class III		
			Max. cont. operating AC/DC voltage U <sub>c</sub> 255 V		
			Nominal load AC current I <sub>n</sub> 25 A		
			Nominal discharge current (8/20) I <sub>n</sub> 3/5 kA		
			[L-N]/[LIN-PE]		
			Protection level U <sub>p</sub> ≤ 1250 V/ ≤ 1500 V		
			[L-N]/[LIN-PE]		
			Max. mains-side		
			overcurrent protection 25 A gL/gG or B 25 A		
			Cross-sectional area min. – max. 0.5 mm <sup>2</sup> – 4 mm <sup>2</sup>		
			Enclosure material Thermoplastic, red, UL 94 V-0		
			Dimensions (DIN 43880) 1 module		
			Remote contact (FM) Changeover contact		

x = Length in meters

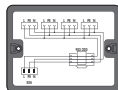




<sup>1</sup>(Extracted from DEHNrail technical data)

## Overvoltage Protection (Type 3) of Industrial Electronic Devices



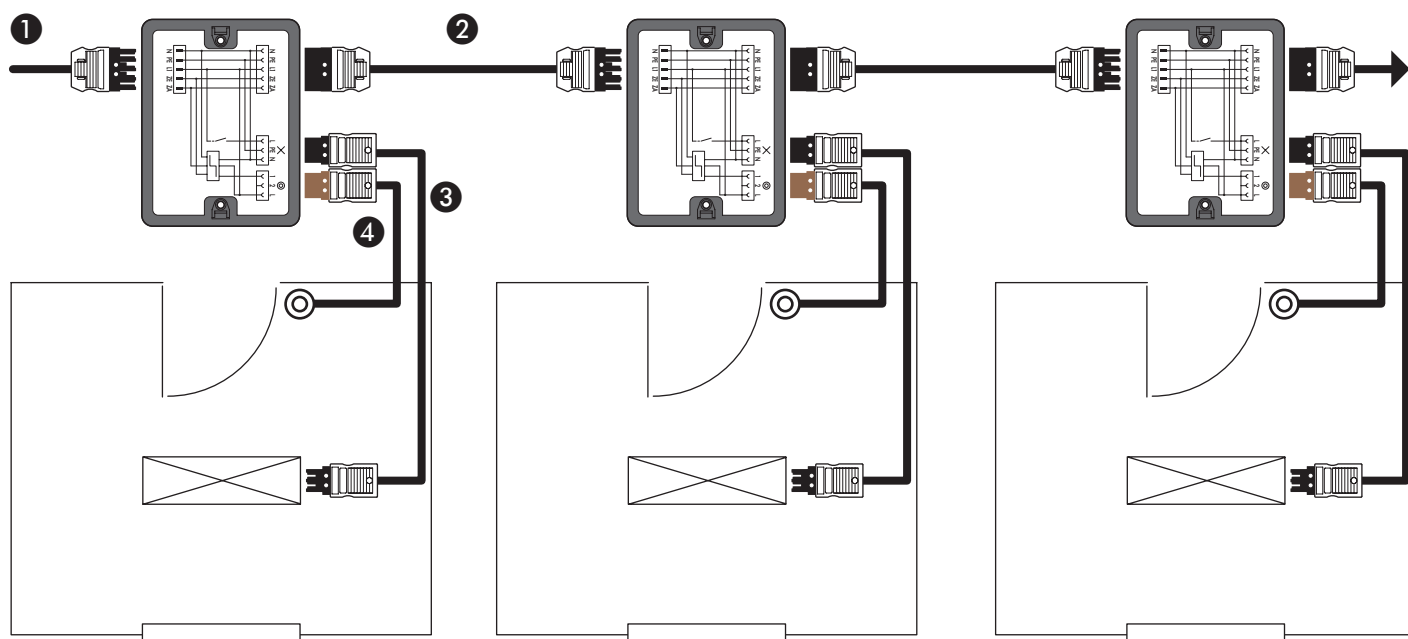
### Description:

This WINSTA® Box is equipped with a "Type 3" surge suppression device (Dehn 953 205) allowing four 3-pole pluggable outputs to be protected. Power supply is performed using a 3-pole connecting cable.

<div>WINSTA® Box</div> <div></div>		<div>Item</div> <div>Distribution box, black</div>	<div>Color</div> <div>●</div>	<div>Item No.</div> <div>770-632/182-000</div>	<div>Pack. Unit</div> <div>1</div>	
Item	Item Description	Coding	Item No.			
<div>1 2</div> <div></div>	<div>Interconnecting cable, 3 x 1.5 mm²,</div> <div>socket – plug,</div> <div>coding A</div>	<div>●</div> <div>○</div>	<div>771-9993/006-x01</div> <div>771-9993/006-x02</div>			
<div>3</div> <div></div>	<div>Connecting cable, 3 x 1.5 mm²,</div> <div>plug – free end,</div> <div>coding A</div>	<div>●</div> <div>○</div>	<div>771-9993/206-x01</div> <div>771-9993/206-x02</div>			
<div>4</div> <div></div>	<div>h-distribution connector,</div> <div>bi-directional,</div> <div>plug – socket/socket,</div> <div>3-pole, coding A</div>	<div>●</div> <div>○</div>	<div>770-633</div> <div>770-683</div>			
<div>5</div> <div></div>	<div>DEHNrail M 2P 255</div> <div>Item no. 953 200</div> <div>Two-pole surge arrester for protecting industrial electronic devices</div>	<div>Technical Data¹ DEHNrail</div> <div>Surge arrester (SPD)</div> <div>acc. to EN 61643-11/IEC 61643-1 Type 3/Class III</div> <div>Max. cont. operating AC/DC voltage U<sub>c</sub> 255 V</div> <div>Nominal load AC current I<sub>L</sub> 25 A</div> <div>Nominal discharge current (8/20) I<sub>n</sub> 3/5 kA</div> <div>[L-N]/[LIN-PE]</div> <div>Protection level U<sub>p</sub> ≤ 1250 V/ ≤ 1500 V</div> <div>[L-N]/[LIN-PE]</div> <div>Max. mains-side</div> <div>overcurrent protection 25 A gL/gG or B 25 A</div> <div>Cross-sectional area min. – max. 0.5 mm² – 4 mm²</div> <div>Enclosure material Thermoplastic, red, UL 94 V-0</div> <div>Dimensions (DIN 43880) 1 module</div>				

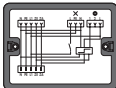



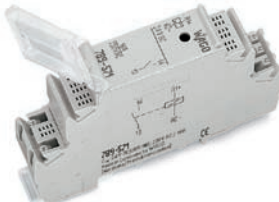
<sup>1</sup>(Extracted from DEHNrail technical data)

## Surge Switch Circuit; Switches, Lights; Central On/Off



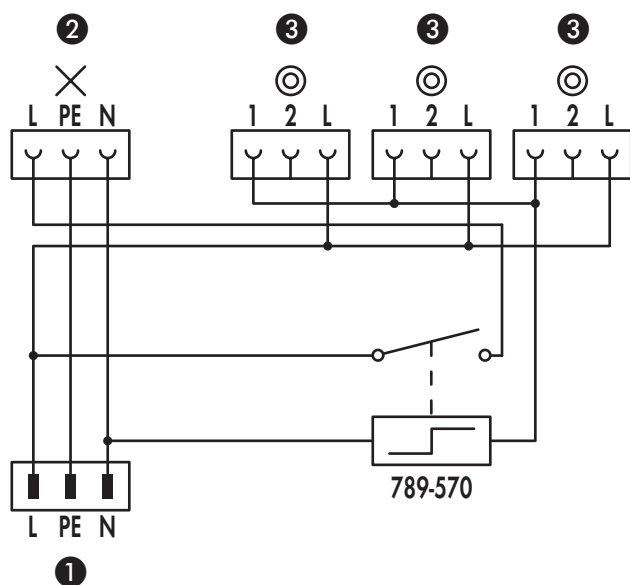
### Description:

This WINSTA® Box is equipped for the pluggable connection of a surge switch circuit (1 switch, 1 light) with central on/off function. Power supply is performed via 5-pole, through wiring connection (L1/N/PE as well as ZE and ZA).

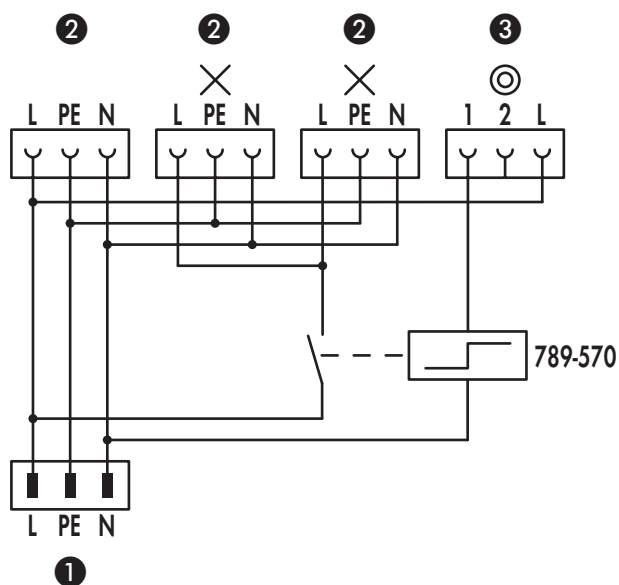
<div>WINSTA® Box</div> <div></div>	Item	Color	Item No.	Pack. Unit
	Distribution box, black	●	770-632/135-000	1
Item	Item Description	Coding	Item No.	
<div><div>12</div><div></div></div>	Interconnecting cable, 5 x 1.5 mm <sup>2</sup> , socket – plug, coding A	●	771-9995/006-x01	
<div><div>3</div><div></div></div>	Interconnecting cable, 3 x 1.5 mm <sup>2</sup> , socket – plug, coding A	●	771-9993/006-x01	
<div><div>4</div><div></div></div>	Connecting cable, 3 x 1.5 mm <sup>2</sup> , plug – free end, coding S	●	771-8973/206-x05	
<div></div>	Relay module in DIN-rail-mountable enclosure	Technical data		
	Item No. 789-570	Input voltage range	U <sub>N</sub> - 15% ... +10%	
	Latching relay with 1 make contact (1a)	Max. switching voltage	400 VAC	
	Nominal input voltage U <sub>N</sub> 230 VAC	Min. switching current	0.1 A	
		Max. switching current	50 A (20 ms)	
		Max. continuous current	16 A	
		Max. switching power (resistive)	AC 4000 VA/DC 300 W	
		Minimum switch-on time	40 ms	
		Minimum break time	180 ms	
		Mechanical life	1 x 10 <sup>5</sup> switch. operations	
		Permissible ambient	-25 °C ... +40 °C	
		operating temperature		

x = Length in meters

## Surge Switch Circuit; Switches, Lights



## Surge Switch Circuit; Switches, Lights, Through Wiring Connection

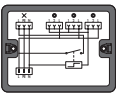

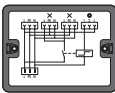






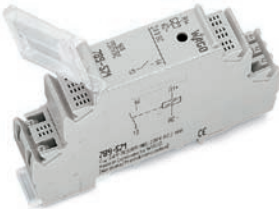


### Description:

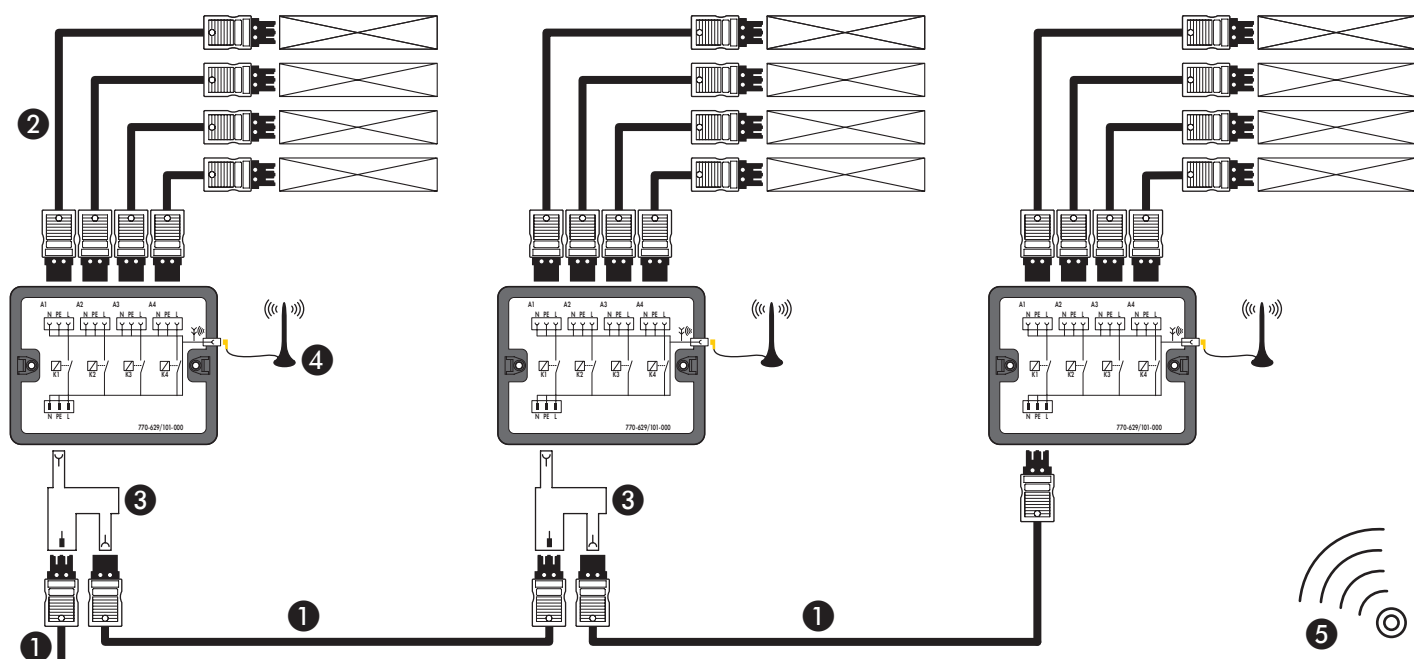
This WINSTA® Box is equipped for the pluggable connection of a surge switch circuit (3 switches, 1 light). Power supply (230 V) can be performed as a through wiring connection using the h-distribution connector provided.

### Description:

This WINSTA® Box is equipped for the pluggable connection of a surge switch circuit (1 switch, 2 lights). Power supply is performed as a 3-pole through wiring connection.

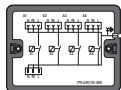




<div>WINSTA® Box</div> <div></div>	<div>Color</div> <div></div>	<div>Item No.</div> <div>770-632/101-000</div>	<div>Pack. Unit</div> <div>1</div>	<div>WINSTA® Box</div> <div></div>	<div>Color</div> <div></div>	<div>Item No.</div> <div>770-632/199-000</div>	<div>Pack. Unit</div> <div>1</div>
<div>Item</div>	<div>Item Description</div>			<div>Coding</div>	<div>Item No.</div>		
<div><div>① ②</div><div></div></div>	<div>Interconnecting cable, 3 x 1.5 mm², socket – plug, coding A</div>			<div> </div>	<div>771-9993/006-x01 771-9993/006-x02</div>		
<div><div>③</div><div></div></div>	<div>Connecting cable, 3 x 1.5 mm², plug – free end, coding S</div>			<div></div>	<div>771-8973/206-x05</div>		
<div></div>	<div>Relay module in DIN-rail-mountable enclosure</div> <div>Item No. 789-570</div> <div>Latching relay with 1 make contact (1a)</div> <div>Nominal input voltage U<sub>N</sub> 230 VAC</div>			<div>Technical data</div> <div>Input voltage range U<sub>N</sub> - 15% ... +10%</div> <div>Max. switching voltage 400 VAC</div> <div>Min. switching current 0.1 A</div> <div>Max. switching current 50 A (20 ms)</div> <div>Max. continuous current 16 A</div> <div>Max. switching power (resistive) AC 4000 VA/DC 300 W</div> <div>Minimum switch-on time 40 ms</div> <div>Minimum break time 180 ms</div> <div>Mechanical life 1 x 10<sup>5</sup> switch. operations</div> <div>Permissible ambient operating temperature -25°C ... +40°C</div>			
</							

## EnOcean Radio Box · 4-Channel Radio Receiver with 4 Make Contacts



### Description:

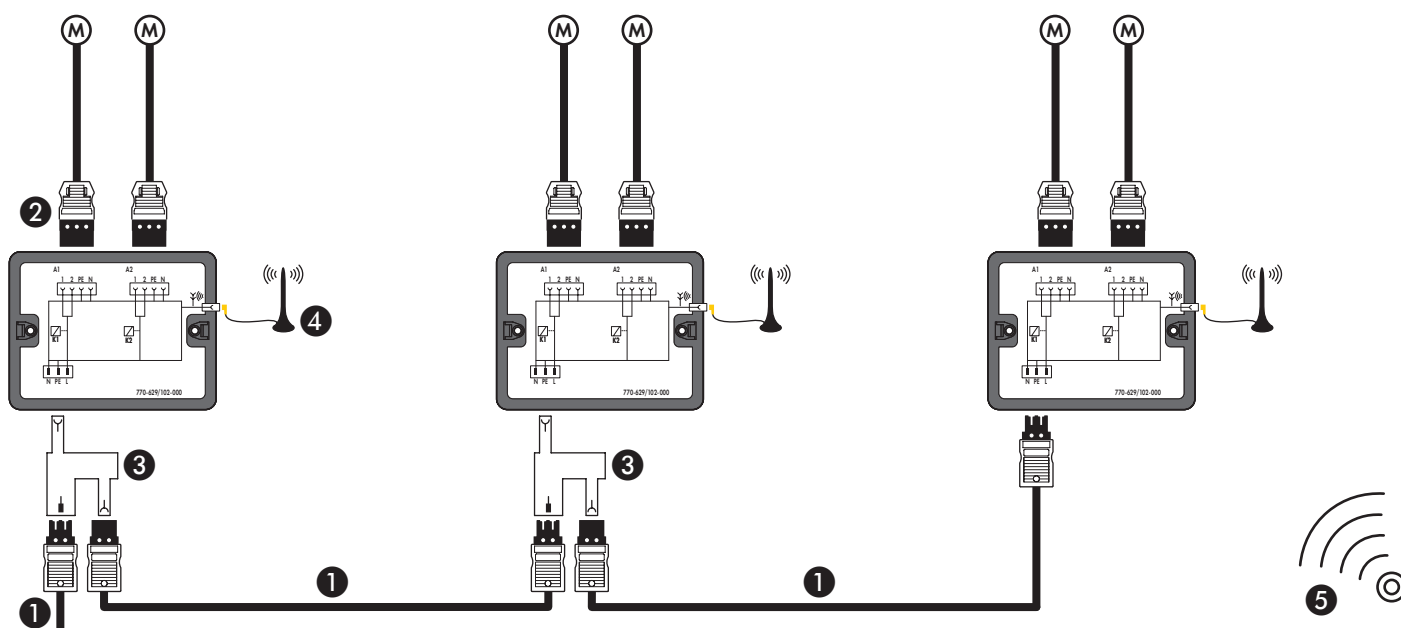
This WINSTA® Radio Receiver Box switches 4 electrical loads (230V/16A).

WINSTA® Box			Item	Color	Item No.	Pack. Unit
			Distribution box, black	●	770-629/101-000	1
Item	Item Description		Coding	Item No.		
1 2		Interconnecting cable, 3 x 1.5 mm <sup>2</sup> , socket – plug, coding A	●	771-9993/006-x01		
3		h-distribution connector, bi-directional, plug – socket/socket, 3-pole, coding A	●	770-633		
4		External antenna, Frequency = 870 MHz – 960 MHz, Cable length: 250 cm		758-910		
5		Radio transmitter, 2-channel, light, white 4-channel, light, white		758-940/001-000 758-940/003-000		
		Radio switches and sensors based on EnOcean technology harvest ambient energy to power themselves. Switches, for example, can be supplied using mechanical operation energy, sensors with the temperature difference within environment or with light energy. Each transmitter has a unique identification number and can be registered by a receiving unit that's up to 300m away. Despite the limited energy available, these high-efficiency electronics can transmit the signal several times, increasing transmission integrity. The battery-free wireless technology replaces the line between sensor and actuator. For example, this allows switches to be mounted on glass partitions in a modern office or historically listed buildings.				

x = Length in meters

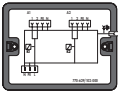







# EnOcean Radio Box · 2-Channel Radio Receiver with Outputs for Blind Control

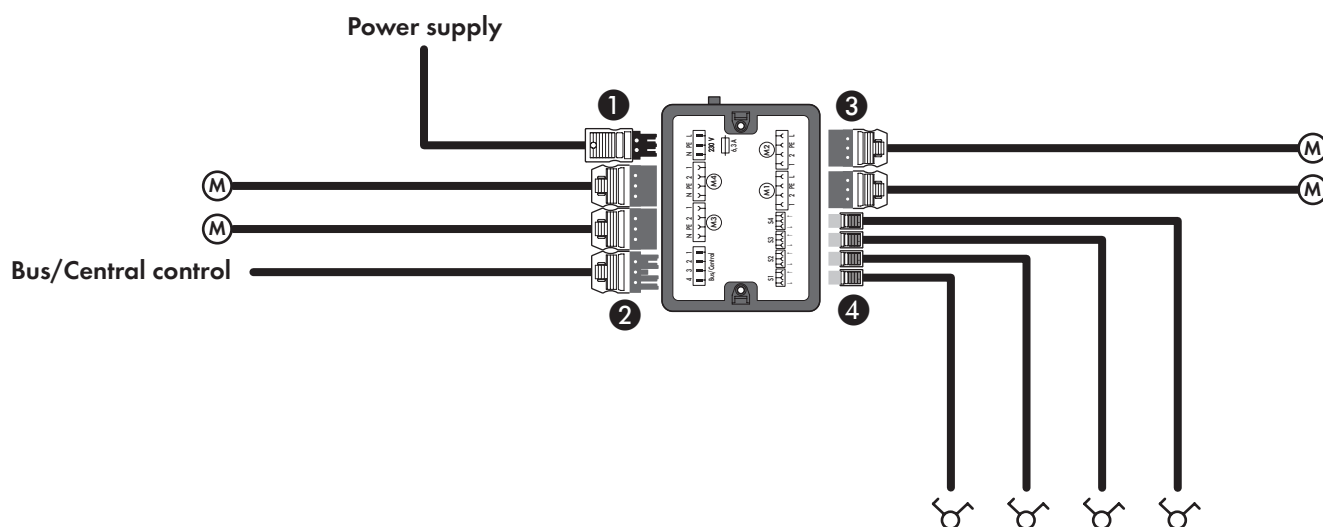


## Description:

This WINSTA® Radio Receiver Box allows two blinds (230V/2A) to be switched (up/down).

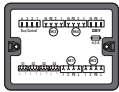





WINSTA® Box		Item	Color	Item No.	Pack. Unit
		Distribution box, black	●	770-629/102-000	1
Item	Item Description		Coding	Item No.	
① 	<b>Interconnecting cable</b> , 3 x 1.5 mm <sup>2</sup> , socket – plug, coding A		●	771-9993/006-x01	
② 	<b>Plug with strain relief housing</b> , 4-pole, for cables Ø 9 - 13 mm, coding A		●	770-114	
③ 	<b>h-distribution connector</b> , bi-directional, plug – socket/socket, 3-pole, coding A		●	770-633	
④ 	<b>External antenna</b> , Frequency = 870 MHz – 960 MHz, Cable length: 250 cm			758-910	
⑤ 	<b>Radio transmitter</b> , 2-channel, blind, white 4-channel, blind, white Radio switches and sensors based on EnOcean technology harvest ambient energy to power themselves. Switches, for example, can be supplied using mechanical operation energy, sensors with the temperature difference within environment or with light energy. Each transmitter has a unique identification number and can be registered by a receiving unit that's up to 300m away. Despite the limited energy available, these high-efficiency electronics can transmit the signal several times, increasing transmission integrity. The battery-free wireless technology replaces the line between sensor and actuator. For example, this allows switches to be mounted on glass partitions in a modern office or historically listed buildings.			758-940/001-000 758-940/003-000	

# Sunblind Box with Bus Control



## Description:

The WINSTA® Sunblind Box is a decentralized, stand-alone unit that controls 4 sunblind motors operated via standard switches. Output group configuration, operating time and "slat/sunblind" mode selection are performed via DIP switch. The boxes connect to a serial bus, allowing a higher-level control system to access up to 16 boxes connected to one bus segment.

<b>WINSTA® Box</b> 	<b>Item</b>		<b>Color</b>	<b>Item No.</b>	<b>Pack. Unit</b>
	Distribution box, black		●	770-629/130-000	1
<b>Item</b>	<b>Item Description</b>		<b>Coding</b>	<b>Item No.</b>	
<b>1</b> 	<b>Connecting cable</b> , 3 x 1.5 mm <sup>2</sup> , socket – free end, coding A		●	771-9993/106-x01	
			○	771-9993/106-x02	
<b>2</b> 	<b>Socket with strain relief housing</b> , for self-assembly 4-pole, for cables Ø 9 – 13 mm, coding B		●	770-244	(Socket)
			○	770-504	(Housing)
<b>3</b> 	<b>Plug with strain relief housing</b> , for self-assembly 4-pole, for cables Ø 9 – 13 mm, coding B		●	770-254	(Plug)
			○	770-504	(Housing)
<b>4</b> 	<b>Socket with strain relief housing</b> , for self-assembly 3-pole, for cables Ø 8.5 mm			734-103	(Female connector)
				734-603	(Housing)
	<b>Technical data</b>				
	Power supply	230 VAC / 50 – 60 Hz	Switching current	1 x 6 A at 230 VAC	
	Voltage range	± 10 %	Control	± 10 %	
	Fuse protection	internal, miniature metric fuse, accessible from outside, 5 x 20 mm, max. 6.3 A	Fuse protection	Bus control or central control via 24 VDC signal	
	Configuration	via DIP switch/header	Permissible ambient operating temperature	- 5 °C ... + 55 °C	
	Inputs	4 switch inputs for on-site switches	Type of mounting	Screw fixing	
	Signal voltage	12 V	Installation site	Interior area	
	Outputs	4 power outputs (up, down, interlocked)	Degree of protection	IP20	
	Switching voltage	230 VAC	Mounting position	any	
			Conformity mark	CE	

x = Length in meters

## WINSTA® Distribution Box (without components)

## WINSTA® Distribution Box with DIN 35 rail (without components)



DIN 35  
rail



### Description:

This WINSTA® Box is designed for custom assembly/wiring and includes: 1 bottom, 1 lid, 2 sidewalls and 16 mounting pins.

### Description:

This WINSTA® Box is designed for custom wiring with an electronic module (1 module on DIN 35 rail) and includes: 1 bottom, 1 lid, 1 sidewall, 1 sidewall with DIN 35 rail and 10 mounting pins.

<b>WINSTA® Box</b>		<b>Color</b>	<b>Item No.</b>	<b>Pack. Unit</b>	<b>WINSTA® Box</b>		<b>Color</b>	<b>Item No.</b>	<b>Pack. Unit</b>
		●	770-631	1			●	770-632	1
		○	770-681	1			○	770-682	
<b>Item</b>	<b>Item Description</b>				<b>Coding</b>	<b>Item No.</b>			
①					●	770-203			
					○	770-223			
					●	770-1303			
					●	770-1363			
②					●	770-213			
					○	770-233			
					●	770-1313			
					●	770-1373			
③					●	770-205			
					○	770-225			
					●	770-1105			
					●	770-1705			
④					●	770-215			
					○	770-235			
					●	770-1115			
					●	770-1315			
⑤					●	890-202			
					○	890-222			
					●	890-1102			
					●	890-242			
⑥					●	890-212			
					○	890-232			
					●	890-1112			
					●	890-252			
⑦						890-111 (black )			
						890-131 (white )			
						770-101 (black )			
						770-121 (white )			
The following components can be integrated into WINSTA® Boxes:									
WINSTA® MINI plugs/sockets, 2- and 3-pole (for all codings), are only suited for 502-890 Adapters!									
WINSTA® MIDI plugs/sockets, 2-, 3-, 4- and 5-pole (for all codings)									
Depending on function and assembly requirements, additional plugs, sockets and locking pins are also available.									

● WAGO Kontakttechnik GmbH & Co. KG  
Postfach 2880 · 32385 Minden  
Hansastraße 27 · D-32423 Minden

Phone: +49 (0)571/887 - 0  
Fax: +49 (0)571/887 - 169  
E-mail: [info@wago.com](mailto:info@wago.com)  
Online: [www.wago.com](http://www.wago.com)

