



# **WAGO WINSTA® pluggable connection system meets ESYLUX**

Easy Installation of Sensors and Lighting







# ESYLUX

ESYLUX develops, produces and markets intelligent automation and light solutions for enhancing quality of life and energy efficiency in offices, educational centers and healthcare facilities. The ESYLUX portfolio ranges from presence and motion detectors up to intelligent lighting systems with energy-efficient Human Centric Lighting. The focus of the portfolio is on the needs and demands of individuals.

## Higher quality of life and energy efficiency at every work place

The requirements for this are often complex. But we only provide solutions that can be easily implemented and used to help people and that improve the atmosphere in every work place as if by magic. We call this "Performance for Simplicity".

## Intelligent Synergy of Automation and Light

Based on R&D and production at our German location and on our experience in demand-driven building automation and lighting, we create the perfect synergy between automation and light: With cutting-edge sensors, easy-to-install LED light systems, intelligent control technologies and energy-efficient use of daylight.

# WAGO

The WAGO Group is an international, standard-setting supplier of electrical interconnection, automation and electronic interface products and solutions. This family-run company has been the world market leader in spring pressure connection technology since 1951.

## Our Industries

WAGO products are used globally in power and process technology, building automation, machinery and equipment, and also in industrial and transportation applications. They are trusted everywhere to establish connections between electrical conductors or for controlling complex

automation systems. Their contributions to the safe and the reliable operation of devices and complete installations have been continuously demonstrated over many years.

## Tested – with Reliability

We don't just promise that our products meet the highest quality demands, you also get this in black and white in the form of internationally recognized certificates, such as DIN ISO 9001, ISO 14001, IRIS or maritime approvals.

# INTELLIGENT LIGHT CONTROL FROM THE SPECIALISTS

## Minimize Costs, Maximize Convenience

Just imagine how pleasant it would be if employees no longer had to think about turning lights on or off at the workplace. And how much more economical buildings can be operated when energy is used only when it is actually needed.

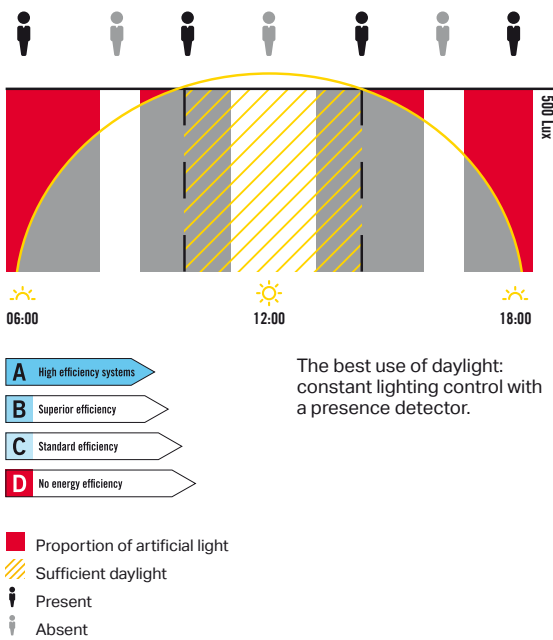
Even a simple presence detector saves a great deal of energy, as it only switches on the lights when employees are present at the work place and when the level of sunlight entering the building is not bright enough to work in. If someone forgets to switch off the lights later, this is done automatically by the presence detector. Even greater efficiency is provided by detectors with constant light control: They only brighten artificial lighting to the degree that a defined level is reached with the available daylight.

This lowers energy consumption while enhancing automation convenience at the same time. Employees can therefore concentrate fully on their tasks, saving money at the same time. Intelligent automation and lighting solutions simultaneously ensure optimal lighting and guarantee orientation and safety in all situations. People profit from an ideal atmosphere in the room in which they feel comfortable and remain effective in their activities.

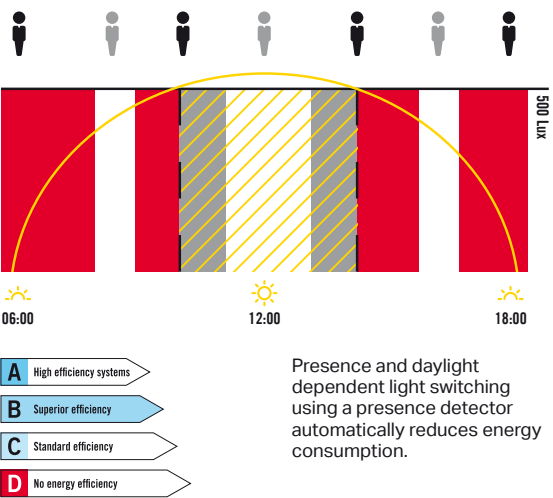
By the way: Because presence and motion detectors only activate the lights when they are needed, they also fully exploit the long life expectancy of LED lights.



### PRESENCE AND DAYLIGHT DEPENDENT CONSTANT LIGHT CONTROL



### PRESENCE AND DAYLIGHT DEPENDENT LIGHT SWITCHING



## INDIVIDUAL AND FLEXIBLE LIGHT CONTROL WITH DALI

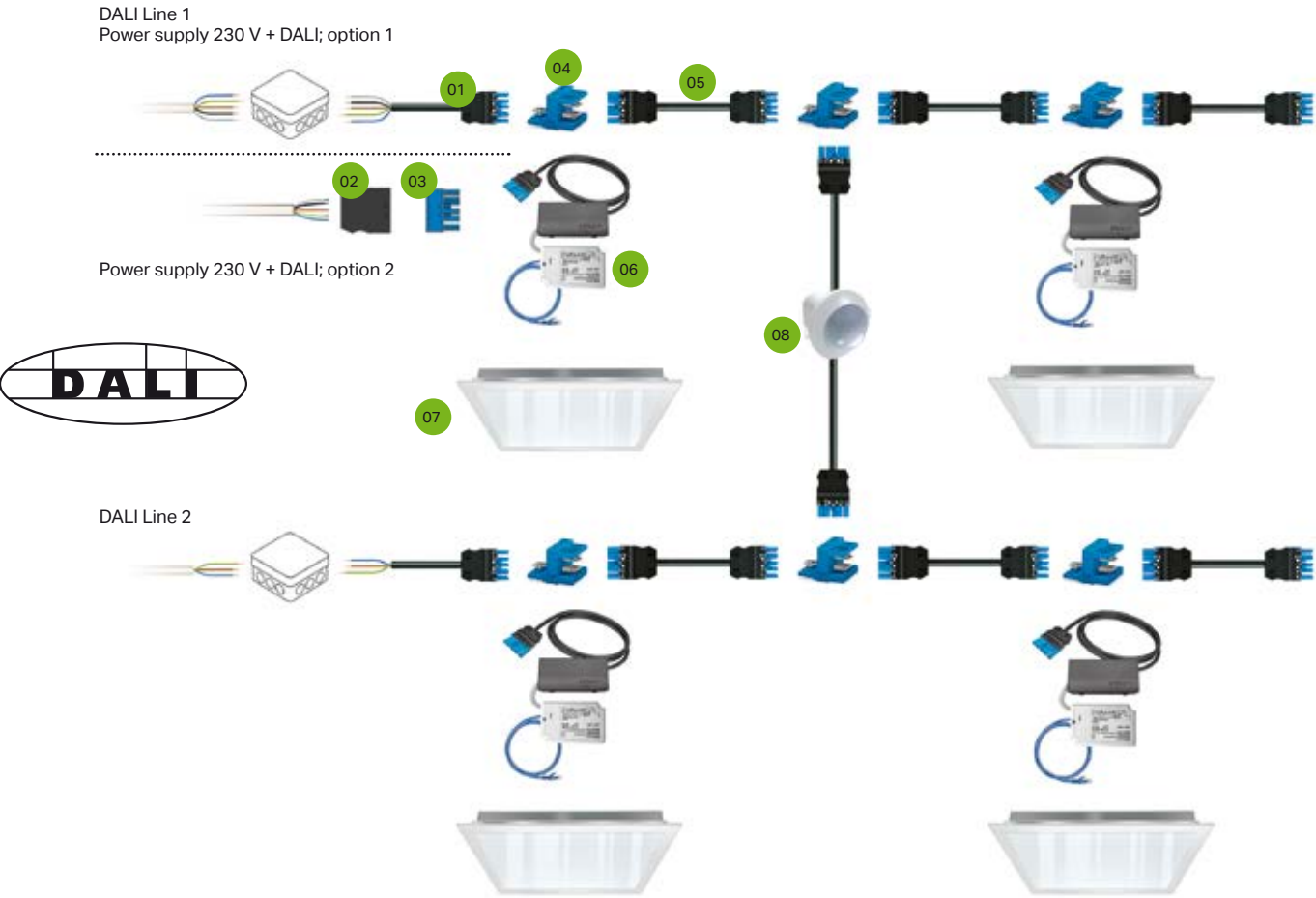
The DALI communication protocol for digital light control has long since become a globally established standard in industry and is also well suited for LED-based lighting. This is because it ensures an optimal dimming response, which is picked up at once with the constant lighting control offered by a presence detector. Besides the switching presence and motion detectors, ESYLUX also offers the DUO-DALI presence detectors of the COMPACT series with a WINSTA® connection.

These detectors enable up to two separate light channels to be controlled while providing for presence and daylight-based constant light regulation without individual addressing. An offset function between the two channels is used to automatically reduce the lighting intensity in an area of the room near the window. When required, the detectors enhance safety using dimmed orientation lighting – such as in corridors.





PLANNING RECOMMENDATIONS FOR DALI LIGHTING INSTALLATIONS



PARTS LIST

No.	Item Number	Quantity	Description
Power supply 230 V + DALI; option 1			
01	771-9985/106-101	1 pcs	Pre-assembled connecting cable; Eca; socket/free end; 5-pole; I-coding; H05VV-F 5G 1.5 mm²; 1 m; blue
Power supply 230 V + DALI; option 2			
02	770-505	1 pcs	Strain relief housing; 5-pole; black
03	770-1105	1 pcs	Socket; 5-pole; I-coding; 4.00 mm²; blue
Installation			
04	770-993	6 pcs	h-distribution connector; 5-pole; I-coding; 1 input; 2 outputs; power outputs at both ends; 3 locking levers; for flying leads; blue
05	771-9985/006-301	6 pcs	Connecting cable; socket – plug, WINSTA® MIDI, 5-pole; I-coding; blue, H05VV-F 5G1.5 cable; 3 m long
06	EQ10127762	4 pcs	DRIVER-SET 30W RJ45 WAGO WINSTA DALI
07	EQ10122026	4 pcs	CELINE PNL 600 DDP OP 3500 840 IP20 ELC
08	EP10424854	1 pcs	PD-C 360i/24 DUO DALI WAGO WINSTA Codel

PLANNING RECOMMENDATION FOR CONVENTIONAL LIGHTING INSTALLATIONS



PARTS LIST

No.	Item Number	Quantity	Description
Power supply 230 V; option 1			
01	771-9993/106-101	1 pcs	Pre-assembled connecting cable; Eca; socket/free end; 3-pole; A-coding; H05VV-F 3G 1.5 mm²; 1 m; black
Power supply 230 V; option 2			
02	770-103	1 pcs	Socket with strain relief housing; 3-pole; A-coding; 4.00 mm²; black
Installation			
03	EP10424830	1 pcs	PD-C 360i/24 WAGO WINSTA CodeA
04	770-686	3 pcs	h-distribution connector; 3-pole; A-coding; 1 input; 2 outputs; power outputs at one end; 3 locking levers; for flying leads; white
05	EQ10127779	3 pcs	DRIVER-SET 30W RJ45 WAGO WINSTA
06	EQ10122026	3 pcs	CELINE PNL 600 DDP OP 3500 840 IP20 ELC
07	771-9993/006-302	2 pcs	Pre-assembled connecting cable; Eca; socket – free end; 3-pole; A-coding; H05VV-F 3G; 1.5 mm²; 3 m; white

# ESYLUX COMPONENTS WITH WINSTA® CONNECTION

## COMPACT

The COMPACT presence and motion detectors are winning classics in our sensor program and are real all-rounders. Besides their solid construction and performance, these detectors impress with a wide variety of possibilities for different applications: Whether as 230 V, KNX or DALI, switching, dimming or HVAC – they always provide the perfect combination of comfort and energy efficiency.



Item no.	Description	WINSTA® connection
EP10424809	MD-C 360i/8 WAGO WINSTA CodeA	WINSTA® (230 V, Code A)
EP10424601	MD-C 360i/8 WAGO WINSTA CodeA/S	WINSTA® (230 V, Code A and S)
EP10424816	MD-C 360i/24 WAGO WINSTA CodeA	WINSTA® (230 V, Code A)
EP10424618	MD-C 360i/24 WAGO WINSTA CodeA/S	WINSTA® (230 V, Code A and S)
EP10424823	PD-C 360i/8 WAGO WINSTA CodeA	WINSTA® (230 V, Code A)
EP10424625	PD-C 360i/8 WAGO WINSTA CodeA/S	WINSTA® (230 V, Code A and S)
EP10424847	PD-C 360i/8 DUO DALI WAGO WINSTA CodeI	WINSTA® (230 V + DALI, Code I)
EP10424649	PD-C 360i/8 DUO DALI WAGO WINSTA CodeB	WINSTA® (230 V + DALI, Code B)
EP10424663	PD-C 360i/8 DUO DALI WAGO WINSTA CodeA/I	WINSTA® (230 V + DALI, Code A and I)
EP10424830	PD-C 360i/24 WAGO WINSTA CodeA	WINSTA® (230 V, Code A)
EP10424632	PD-C 360i/24 WAGO WINSTA CodeA/S	WINSTA® (230 V, Code A and S)
EP10424854	PD-C 360i/24 DUO DALI WINSTA CodeI	WINSTA® (230 V + DALI, Code I)
EP10424656	PD-C 360i/24 DUO DALI WAGO WINSTA CodeB	WINSTA® (230 V + DALI, Code B)
EP10424670	PD-C 360i/24 DUO DALI WAGO WINSTA CodeA/I	WINSTA® (230 V + DALI, Code A and I)

## COMPACT EXPRESS

The COMPACT-EXPRESS series of presence and motion detectors enable ceiling flush-mounting and guarantee a discreet appearance, often with only the lens being visible. Mounting is quick and easy – that's express.



Item no.	Description	WINSTA® connection
EP10510045	MD-CE 360i/8 WAGO WINSTA CodeA	WINSTA® (230 V, Code A)
EP10510052	MD-CE 360i/24 WAGO WINSTA CodeA	WINSTA® (230 V, Code A)
EP10510786	PD-CE 360i/8 WAGO WINSTA CodeA	WINSTA® (230 V, Code A)
EP10510793	PD-CE 360i/24 WAGO WINSTA CodeA	WINSTA® (230 V, Code A)

## FLAT

Whether in an exclusive lounge or in a typical executive office – stylish interior design often demands a just as impressive appealing appearance of the technology used in the room. Exactly the right place for the FLAT presence and motion detectors: Their flat design offers an especially subtle appearance.



Item no.	Description	WINSTA® connection
EP10424861	MD-FLAT 360i/8 RW WAGO WINSTA CodeA	WINSTA® (230 V, Code A)
EP10424687	MD-FLAT 360i/8 RW WAGO WINSTA CodeA/S	WINSTA® (230 V, Code A and S)
EP10424878	PD-FLAT 360i/8 RW WAGO WINSTA CodeA	WINSTA® (230 V, Code A)
EP10424694	PD-FLAT 360i/8 RW WAGO WINSTA CodeA/S	WINSTA® (230 V, Code A and S)

## CELINE

The LED ceiling recessed light fixtures of the CELINE series ensure energy-efficient lighting in offices, conference rooms and in other areas. This series is designed for use in suspended ceilings, but can also be installed in other environments with the right accessories – and their high lighting quality is equally impressive.



Item no.	Description	WINSTA® connection
EQ10122002	CELINE PNL 600 DDP OP 3300 830 IP20 ELC	RJ-45*
EQ10122026	CELINE PNL 600 DDP OP 3500 840 IP20 ELC	RJ-45*

\* DRIVER SET WINSTA® always required!

## ACCESSORIES



Item no.	Description	WINSTA® connection
EQ10127755	DRIVER-SET TW 38W RJ45 WAGO WINSTA DALI DT8	WINSTA® (230 V + DALI) / RJ-45
EQ10127762	DRIVER-SET 30W RJ45 WAGO WINSTA DALI	WINSTA® (230 V + DALI) / RJ-45
EQ10127779	DRIVER-SET 30W RJ45 WAGO WINSTA	WINSTA® (230 V + DALI) / RJ-45

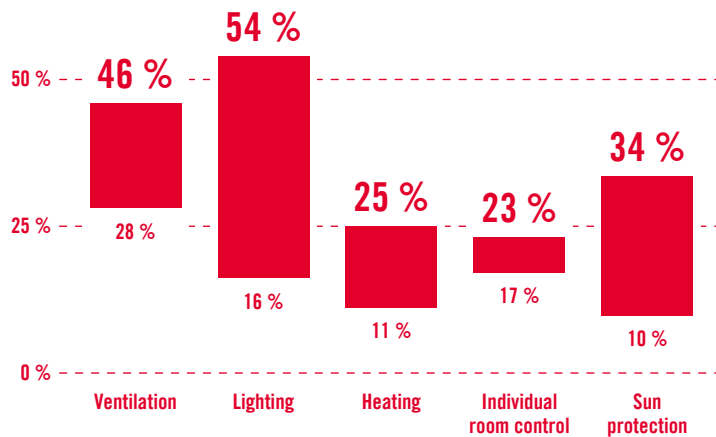
# CROSS-DISCIPLINE SAVINGS POTENTIAL

Higher energy efficiency and sustainability above and beyond light control

Presence and motion detectors are not only specialists when it comes to lighting control – their capabilities often far exceed this. The DUO-DALI presence detectors with a *WINSTA*® connection can be expanded by a DALI actuator from ESYLUX, for example, which enables presence-triggered switching of conventional 230 V end devices. Ventilation can therefore also be combined in the system, which substantially enhances savings potential for energy consumption even more. Also possible using DALI actuators: fully automatic or semi-automatic switching of table lighting.

Item no.	Description	<i>WINSTA</i> ® connection
EP10424847	PD-C 360i/8 DUO DALI WAGO <i>WINSTA</i> CodeI	<i>WINSTA</i> ® (230 V + DALI, Code I)
EP10424649	PD-C 360i/8 DUO DALI WAGO <i>WINSTA</i> CodeB	<i>WINSTA</i> ® (230 V + DALI, Code B)
EP10424663	PD-C 360i/8 DUO DALI WAGO <i>WINSTA</i> CodeA/I	<i>WINSTA</i> ® (230 V + DALI, Code A and I)
EP10424854	PD-C 360i/24 DUO DALI WAGO <i>WINSTA</i> CodeI	<i>WINSTA</i> ® (230 V + DALI, Code I)
EP10424656	PD-C 360i/24 DUO DALI WAGO <i>WINSTA</i> CodeB	<i>WINSTA</i> ® (230 V + DALI, Code B)
EP10424670	PD-C 360i/24 DUO DALI WAGO <i>WINSTA</i> CodeA/I	<i>WINSTA</i> ® (230 V + DALI, Code A and I)

ENERGY SAVING POTENTIAL OF DEMAND-DRIVEN BUILDING AUTOMATION (MIN./MAX.)



Source: Zentralverband Elektrotechnik- und Elektroindustrie e.V. (ZVEI)/ Biberach University of Applied Sciences

# WAGO *WINSTA*® PLUGGABLE CONNECTION SYSTEM

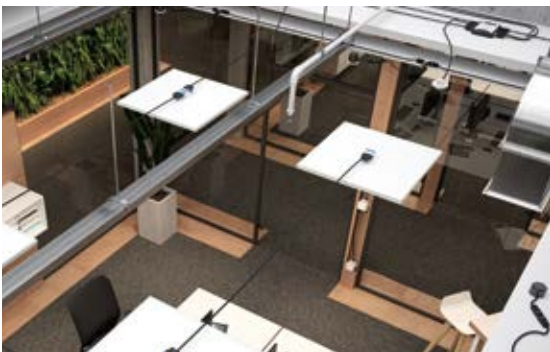
*WINSTA*® pluggable connection system readily meets the strict requirements of building installations. The system provides simple pluggable electrical connections – electrical installations are fast, safe and error-free.



- Cable Duct**
- Power supply distribution to a 230 V mains is performed using a pre-assembled *WINSTA*® Distribution Box.
  - Power outputs are plugged into trunking outlets via pre-assembled interconnecting cables with *WINSTA*® Plugs and Sockets.



- Sunblind control**
- A connecting cable supplies the *WINSTA*® distribution box for sunblind control with power.
  - The sunblinds can also be operated via switches, as a user may expect.
  - The connections at the distribution box are 100 % protected against mismatching.
  - The application is pre-assembled to save installation time and expedite system expansion.



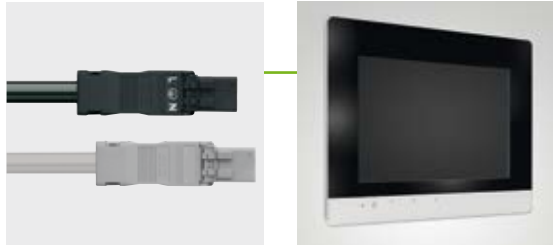
- Lighting**
- The ceiling lights are connected to the distribution box via Linect® T-Connectors and *WINSTA*® Cable Assemblies.
  - The circuit is flexible, quick to set up and can readily adapt to new requirements using the pluggable connection system.
  - Linect® lights can be installed and removed just as quickly.

- Your Benefits:**
- Time savings at construction sites
  - Optimized resource allocation
  - Protection against mismatching and mechanical coding
  - Reconfiguration flexibility
  - Timely completion of installation work



# BUILDINGS OF TOMORROW WILL BE BUILT WITH THE WINSTA® SYSTEM OF TODAY

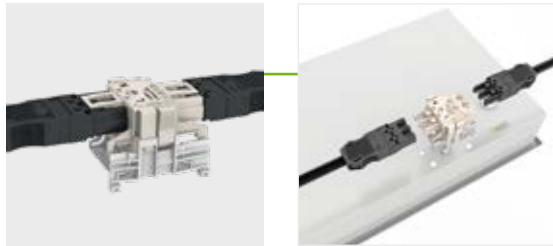
WINSTA® MINI  
WINSTA® MINI special



WINSTA® MIDI  
WINSTA® MIDI special



WINSTA® MIDI Linect®



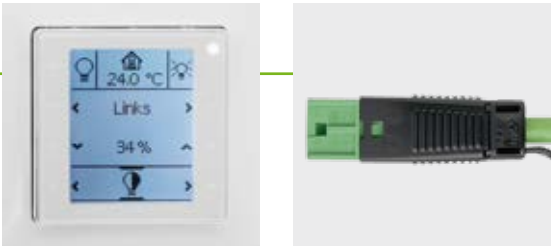
WINSTA® MAXI



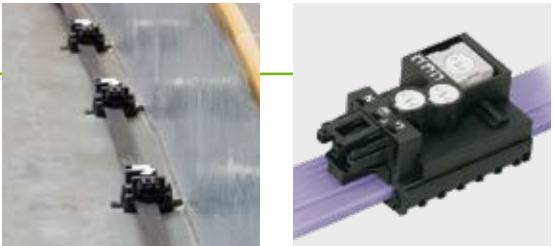
WINSTA® RD



WINSTA® KNX



WINSTA® IDC





## WINSTA® SYSTEM PARTNERS

WINSTA® provides simple pluggable electrical connections - connections that are fast, safe and error-free. Many well-known companies rely on our connection system when it comes to electrical installations and have already implemented a WINSTA® connection in their portfolio.

### Our System Partners, Your Benefits:

- Comprehensive system solution offerings
- Perfectly matched products
- Direct exchange between project partners

An overview of our partners is available here:  
[www.wago.com/de/winsta-systempartner](http://www.wago.com/de/winsta-systempartner)

# WAGO SERVICES

## Success through Expertise

### Project Planning with WAGO

Together with your local WAGO contact we will assist you with your project planning. Based on the project documentation you submit, we will provide you with expert advice and consultations with technical specialists who will help develop concepts into sophisticated solutions. We have technical specialists in electrical systems, HVAC, industry and pluggable installations all at one location, enabling us to quickly and flexibly react whatever demands you may have.

#### WAGO provides advice and support with:

- Product selection
- Product commissioning and all technical questions about WAGO products and solutions

#### Planning and project design:

- Conceptual design
- Network planning
- Application design
- Component selection
- Quote generation

#### WAGO helps customers with:

- Advice while planning the construction project from experts with years of project experience
- Customizing solutions to ensure the technical and financial success of large projects (individual design of distribution connectors and functional boxes)

For more information, please visit our website at  
[www.wago.com/de/connection-technology/discover-pluggable-connectors/winsta](http://www.wago.com/de/connection-technology/discover-pluggable-connectors/winsta)

#### Contact us at

Phone: +49 (0)571-887-49160  
 Email: [info.projektplanung.de@wago.com](mailto:info.projektplanung.de@wago.com)  
 Internet: [www.wago.com/de/contact](http://www.wago.com/de/contact)

# ESYLUX SERVICES

No matter if you would like to receive advice about our products, or if you have a question about your order or need assistance when executing your projects - take advantage of the direct line to our specialists.

#### Contact us at

ESYLUX GmbH (Export)  
 An der Strusbek 40  
 22926 Ahrensburg I Germany  
 t: +49 4102 888 80 0  
[sales@esylux.com](mailto:sales@esylux.com)  
[www.esylux.com](http://www.esylux.com)



**WAGO Kontakttechnik GmbH & Co. KG**

Postfach 2880 · D-32385 Minden  
Hansastraße 27 · D-32423 Minden

**info@wago.com**

**www.wago.com**

Headquarters	0571/ 887 - 0
Sales	0571/ 887 - 44 222
Orders	0571/ 887 - 44 333
Fax	0571/ 887 - 844 169

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