TECHDOCS

Industrial PoE Splitter

PoE++; 24 VDC output voltage; 3 A; 10/100/1000 BASE

852-1739

Product manual
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Every conceivable measure has been taken to ensure the accuracy and completeness of this documentation. However, as errors can never be fully excluded, we always appreciate any information or suggestions for improving the documentation.

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We wish to point out that the software and hardware terms as well as the trademarks of companies used and/or mentioned in the present documentation are generally protected by trademark or patent.

WAGO is a registered trademark of WAGO Verwaltungsgesellschaft mbH.

Table of Contents

1 Provisions

This document applies to the following product:

852-1739 (Industrial PoE Splitter; PoE++; 24 VDC output voltage; 3 A; 10/100/1000 BASE)

Product Detail Page	https://www.wago.com/852-1739

The product must only be installed and operated in accordance with the operating instructions. Knowledge of the operating instructions is required for proper use. You can find all documents and information on the detailed product page.

1.1 Intended Use

This product is for setting up ETHERNET networks.

The product is an open type device and is designed for installation in an additional enclosure.
- This product is intended for installation in automation technology systems.
- Operation of the products in industrial area is permitted.
- The product is designed for use in dry indoor rooms.
- Operation of the product in other application areas is only permitted when corresponding approvals and labeling are present.

Improper Use

Improper use of the product is not permitted.

Improper use occurs in particular in the following cases:
- Non-observance of the intended use
- Use without protective measures in an environment in which moisture, salt water, salt spray mist, dust, corrosive fumes, gases, direct sunlight or ionizing radiation can occur
- Implementation of a Known Misuse
- Use of the product in areas with special risk that require continuous fault-free operation and in which failure of or operation of the product can result in an imminent risk to life, limb or health or cause serious damage to property or the environment (such as the operation of nuclear power plants, weapons systems, aircraft and motor vehicles)

Known Misuse

Known misuse of the product is not permitted.

Known misuse occurs in particular in the following cases:
- Use of the product in residential, business and commercial areas, as well as small businesses, without prior checking of the information in the data sheet for the products used

Warranty and Liability

The provisions of the latest WAGO General Terms and Conditions of Deliveries and Services (GTC) apply as well as the Software License Terms for Standard Software (SW-License) applicable to software products und software embedded in WAGO hardware products, both available at: www.wago.com.

In particular, the warranty is void when:
- The product is improperly used.

- The defect is based on (customer-)specific specifications (hardware and software configurations).
- Modifications of the hardware or software by the user or third parties were made that are not described in this documentation and are at least responsible for the occurrence of the defect.

Individual agreements always take precedence.

Obligations of the installer/operator

Installers and operators bear responsibility for the safety of an installation or a system assembled with the product.

The installer/operator is responsible for the proper installation and the safety of the system. It must comply with the laws, standards, guidelines, local regulations, the state and the rules of technology applicable at the time of installation and must observe the guidelines and instructions described in the operating instructions. The installation requirements of the approvals must also be met.

In the event of non-compliance, operation of product within the scope of the approval is not permitted.

1.2 Typographical Conventions

Number Notation

100	Decimals: Normal notation
0x64	Hexadecimals: C-notation
'100'	Binary: In single quotation marks
'0110.0100'	Nibbles separated by a period

Text Markups

italic	Names of paths or files
bold	Menu items, entry or selection fields, emphasis
`Code`	Excerpts from program code
>	Selection of a menu point from a menu
"Value"	Value entries
[F5]	Identification of buttons or keys

Links

	Link to a topic in a document
	Link to a separate document
	Link to a website
	Link to an email address
Glossary	Link to a glossary entry

Sequence of Action

✓ This symbol identifies a precondition.

1. Action step
2. Action step
   ⇨ This symbol identifies an intermediate result.

➡ This symbol identifies the result of an action.

- Individual action step

Lists

- Lists, first level
  – Lists, second level

Figures

Figures in this documentation are for better understanding and may differ from the actual product design.

Warning Messages

⚠ DANGER

Type and source of hazard

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

- Action step to reduce risk

⚠ WARNING

Type and source of hazard

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

- Action step to reduce risk

⚠ CAUTION

Type and source of hazard

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

- Action step to reduce risk

NOTICE

Type and source of malfunction (property damage only)

Indicates a potentially hazardous situation which, if not avoided, may result in damage to property.

- Action step to reduce risk

Information Notices

Note

Information

Indicates information, clarifications, recommendations, referrals, etc.

1.3 Legal Information

Intellectual property

The intellectual property of this document belongs to WAGO GmbH & Co. KG. The reproduction and distribution of its content (in whole or in part) is prohibited, unless otherwise provided by statutory provisions, written agreements or this document. In case of doubt, the written consent of WAGO GmbH & Co. KG must be obtained in advance.

Third-party products are always mentioned without any reference to patent rights. WAGO GmbH & Co. KG, or the manufacturer of third-party products, retains all rights regarding patent, utility model or design registration.

Third-party trademarks are referred to in the product documentation. The "®" and "™" symbols are omitted hereinafter. The trademarks are listed in the Appendix: **Protected Rights [▸ 26]**.

Subject to Change

The instructions, guidelines, standards, etc., in this manual correspond to state of the art at the time the documentation was created and are not subject to updating service. The installer and operator bear sole responsibility to ensure they are complied with in their currently applicable form. WAGO GmbH & Co. KG retains the right to carry out technical changes and improvements of the products and the data, specifications and illustrations of this manual. All claims for change or improvement of products that have already been delivered – excepting change or improvement performed under guarantee agreement – are excluded.

Licenses

The product contains open-source software. The requisite license information is saved in the product. This information is also available under **www.wago.com**.

2 Safety

This section presents hazards that could occur if the product is used. Builders and operators must take all hazards into account when analyzing the risk of their installed systems. Measures to reduce the risk of hazards that are foreseeable from the manufacturer's point of view (i.e., without knowledge of the specific system built) are explained in the respective sections of this documentation (e.g., in "Planning").
Builders and operators must implement explained risk reduction measures and also take their own measures depending on the residual risk.

2.1 General Safety Regulations

- This documentation is part of the product. Therefore, retain the documentation during the entire service life of the product. Pass on the documentation to any subsequent user of the product. In addition, ensure that any supplement to this documentation is included, if necessary.
- The product must only be installed and put into operation by qualified electrical specialists per EN 50110-1/-2 and IEC 60364.
- Changes to switch configurations in the network must always be performed by qualified personnel with sufficient skills.
- Set up permissions management for authorized persons.
  - Physical access may only be made by authorized persons.
  - Digital access may only be made by authorized persons.
- Comply with the laws, standards, guidelines, local regulations and accepted technology standards and practices applicable at the time of installation.

2.2 Electrical Safety

- Make sure the product does not carry any voltage before starting work.

Power Supply

- Connecting impermissible current or frequency values may destroy the product.
- Plan for voltage buffering if the requirement for voltage buffering according to EN 61131-2 is to be met.

Grounding/Protection/Fuses

- When handling the product, please ensure that environmental factors (personnel, work space and packaging) are properly equalized. Do not touch any conducting parts.

Cables

- To minimize interference (e.g., by electromagnetic interference), maintain a spatial separation between control, signal and data lines and the power supply lines.
- Always design the connection cables for the maximum anticipated current load.
- High currents and the inherent head generated by the product can cause additional heat generation at the clamping point. Plan for a correspondingly higher temperature range for the connecting cables, or reduce inherent heat by selecting larger conductor cross-sections.
- Only one conductor may be connected to each connection point (e.g., CAGE CLAMP® connection).

2.3 Mechanical Safety

- Before startup, please check the product for any damage that may have occurred during shipping. Do not put the product into operation in the event of mechanical damage.
- Do not open the product housing.
- Avoid conductive contamination.

2.4 Thermal Safety

- The surface of the housing heats up during operation. Under special conditions (e.g., in the event of a fault or increased surrounding air temperature), touching the product may cause burns. Allow the product to cool down before touching it.
- If the surface temperature of the product can exceed 40 °C, wear protective gloves and attach protective covers and/or touch-proof protection.
- The temperature inside the additional enclosure must not exceed the ambient temperature permitted for the mounted product.
- Cooling of the product must not be impaired. Ensure air can flow freely and that the minimum clearances from adjacent products/areas are maintained.

2.5 Indirect Safety

- Do not use any contact spray for cleaning.
- Do not use hard objects that could cause scratches for cleaning.
- The product is not resistant to materials with seeping and insulating properties, such as aerosols, silicones or triglycerides (found in some hand creams). If these substances occur in the environment of the product, install the product in an additional housing that is resistant to these substances as well.
- Observe possible different technical specifications for mounting that does not correspond to the nominal mounting position.
- Only use accessories authorized by WAGO.

3 Overview

The device is an industrial PoE splitter with two Gigabit Ethernet ports and a 24 VDC output voltage. It provides a power supply and data connection to decentralized control cabinets via a single Ethernet cable. The PoE splitter supplies a stable 24 VDC output voltage with nominal current up to 3 A. Typical applications include powering PLC controllers, industrial PCs, HMI panels, network switches, access points and surveillance cameras. The 24 VDC output voltage is equipped with electronic overload protection, so the PoE splitter can provide current up to 7 A for a short time. This makes it possible to charge capacitive loads and start up suitable LCD displays, for example.

The PoE splitter (Powered Device, PD) is connected to PoE Power Sourcing Equipment (PSE) via an Ethernet port per IEEE 802.3 af/at/bt (4PPoE), using the WAGO PoE Switch (item no. 852-1813/000-001) or a WAGO PoE Injector (Item nos. 852-1731, 852-1732), for example. Supplying power via a managed PoE port allows targeted remote switch-on and switch-off of the 24 VDC output voltage. This enables targeted restart of decentralized control cabinets, increasing the availability of system functions.

The device functions as a Layer 1-transparent in-line device (Ethernet pass-through) and transmits the Ethernet signal from the 10/100/1000BASE-T input port to the output port unchanged. It does not perform switching, bridging, or media conversion functions. The data is only passed through electrically. As a result, the connection properties are negotiated exclusively between the two connected end devices (autonegotiation). For reliable operation, both remote stations must be configured to the same Ethernet speed or have autonegotiation enabled. Since the PoE splitter does not regenerate signals like a repeater or switch, the total length of cable between the two endpoints must not exceed 100 m in total.

Thanks to its robust design and extended temperature range from –40 to +60 °C, the PoE splitter ensures stable and reliable operation, even under harsh environmental conditions. The compact design with DIN-rail adapter makes installation in the control cabinet easy. Safe, convenient handling is ensured by its high temperature, vibration and shock resistance, informative status LEDs, switch-activated voltage output and a commissioning process that requires no additional software tools.

Key Features:

- Nominal current: up to 3 A for PoE++ or 1 A for PoE+
- Switch for activating the voltage output
- Compatible with IEEE802.3i, 802.3u and 802.3ab Ethernet standards
- Compatible with IEEE802.3af, 802.3at and 802.3bt PoE standards
- Overload and short circuit protection

4 Properties

4.1 View

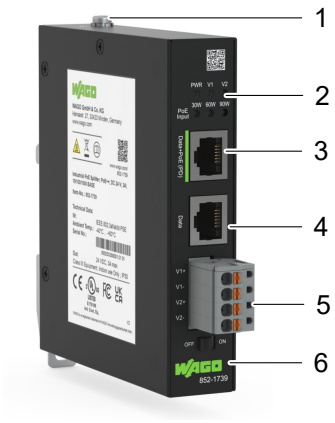


Figure 1: Front View

1	Grounding screw	Functional grounding [▸ 16]
2	Display Elements	Indicators [▸ 13]
3	PoE 10/100/1000BASE-T-Port	ETHERNET Communication / PoE Power Consumption
4	10/100/1000BASE-T-Port	ETHERNET Communication
5	24 VDC output voltage	Connections [▸ 13]
6	DIP switch DC output	Control Elements [▸ 14]

See also

- Connections [▸ 13]

4.2 Type Plate

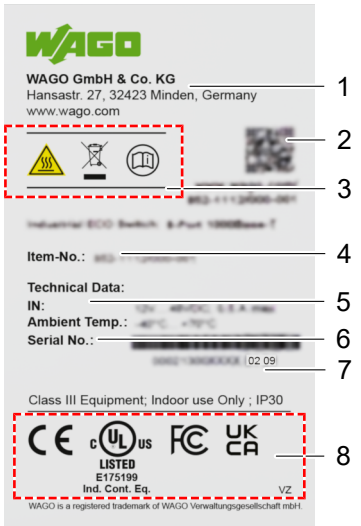


Figure 2: Type Plate (Example)

No.	Name	Description
1		WAGO logo and address
2		QR code with link to product detail page www.wago.com/<item number>
3		Field for warning and information symbols
		**Caution:** Do not touch hot surfaces!
		**Note:** Electrical and electronic equipment must not be disposed of with household waste! More information about this topic:. **Disposal and Recycling [▸ 22]**
		**Note:** Observe the product documentation!
4	Item No.	Item Number
5	IN:	Indicates the supply voltage Specification of the ambient temperature **Technical Data, Approvals, Guidelines and Standards [▸ 23]**
6	Serial No.	Product serial number as a barcode
7	Serial No.	Product serial number in text form: <Serial number> <Firmware version> (left sequence of digits; example: 02) <Hardware version> (right sequence of digits; example: 09)
8		Field for names
		With the CE mark, WAGO declares that the product meets the applicable requirements as set out in Community harmonization legislation per EC Regulation 765/2008, which allows the product to carry this mark.
		Certified safety mark of UL-listed products for the American and Canadian market
		With the FCC marking, WAGO declares conformity with the regulations of the US Federal Communications Commission.
		The UKCA (UK Conformity Assessed) mark declares that the conformity requirements for the UK market are met.

4.3 Connections

Figure 3: Output Voltage Connection

Connection	Description
V1+	DC output voltage: positive potential
V1-	DC output voltage: negative potential
V2+	DC output voltage: positive potential
V2-	DC output voltage: negative potential

The 24 VDC outputs V1 and V2 are connected in parallel and can be used interchangeably. The nominal output current (3 A) must not be exceeded in total. Use a conductor with a minimum cross-section of AWG 20 / 0.75 mm².

4.4 Indicators

4.4.1 Status LED of the Supply Voltage

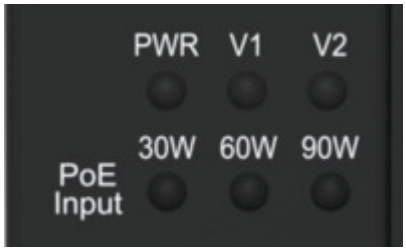


Figure 4: Status LEDs

LED	Name	Status	Description
PWR	Status LED: supply voltage	Green	PoE voltage applied
		Off	PoE power supply switched off or error
V1	DC voltage output 1	Green	DC voltage output is active.
		Off	DC voltage output is inactive.
V2	DC voltage output 2	Green	DC voltage output is active.
		Off	DC voltage output is inactive.
30 W	PoE power supply	Green	PSE power range 0 W to < 30 W
60 W	PoE power supply	Green	PSE power range 30 W to < 60 W
90 W	PoE power supply	Green	PSE power range 60 W to < 60 W

LED	Name	Status	Description
30 W 60 W 90 W	PoE power supply	Flashing	PSE power range exceeded. “Protection Mode” is active. Requirements for Wiring and Accessories [▸ 17]

4.5 Control Elements

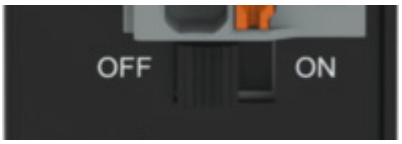


Figure 5: Switches for DC Output Voltage

ON	Voltage output enabled
OFF	Voltage output disabled

5 Planning

5.1 Data Security

Professional planning and design is an important requirement for securing data confidentiality, availability and integrity.

Random Influences

Data transmission and processing can be disrupted by random influences, such as temporary electromagnetic disturbances. Proper setup can significantly reduce the likelihood of corruption or destruction of data.

For additional information see: EMC Installation [▸ 16].

Deliberate Influences

Use in ETHERNET Areas

ETHERNET products are designed for use in local networks. Please note the following when using ETHERNET products in your system:

- Do not connect control components and control networks to an open network such as the Internet or an office network.
  WAGO recommends putting control components and control networks behind a firewall.
- In the control components, close all ports and services not required by your application to minimize the risk of cyber attacks and to enhance cybersecurity.
  Only open the ports and services for the duration of the commissioning/configuration.
- Limit physical and electronic access to all automation components to authorized personnel only.
- To reduce the risk of unauthorized access to your system, change the default passwords during initial commissioning.
- To reduce the risk of unauthorized access to your system, regularly change the passwords used.
- To verify that the measures taken meet your security requirements, regularly perform threat analyses.
- To restrict access to and control of individual products and networks, employ a "defense-in-depth" mechanism in your system's security configuration.

Additional document

- 🕮 White Paper Cybersecurity in Production Facilities

All the documentation and information is available at: www.wago.com.

5.2 Safety Measures at the Installation Location

Additional Enclosure

The product is an open type device. It must only be installed within appropriate enclosures, cabinets or electrical operation rooms that fulfill at least the following requirements:

- Offer adequate protection against direct or indirect contact.
- Offer adequate protection against UV irradiation.

- Restrict access to authorized personnel and may only be opened with tools.
- Ensure the required pollution degree in the vicinity of the system.
- Prevent fire from spreading outside of the enclosure.
- Guarantee mechanical stability.

5.3 Functional grounding

The product must be grounded. The following options are available for this:

- Grounding screw

Do not operate the product without a properly installed functional ground.

5.4 Mounting Position and Clearances

All specifications and handling steps refer to the nominal mounting position. Deviating mounting positions affect, for example:

- Air circulation

Maintain the following distances from adjacent products, cable ducts and the sides of housings and frames for the setup.

Temperature-dependent clearances (top, bottom and side) for nominal mounting position:

- < 50 °C: 10 mm for all PoE classes
- >50 °C: PoE++ (90 W) = 30 mm; all other classes (60 W; 30 W; 15.4 W) = 10 mm

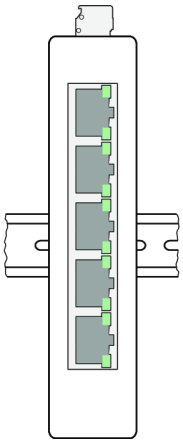


Figure 6: Nominal Mounting Position

5.5 EMC Installation

- **Ground DIN-rails.**
  Ground the DIN-rails to divert electromagnetic interference.
- **Use shielded cables for data and signal lines.**
  Electromagnetic interference is reduced and signal quality increased. Measurement errors, data transmission faults and interference due to excessive voltage can be prevented!
- **Keep data and signal lines separate from interference sources.**
  Route data and signal lines separately from all power supply cables and other sources of high electromagnetic emissions (e.g., frequency converters or drives).

- **Connect the cable shielding with the ground potential.**
  Integrated shielding is mandatory to meet technical specifications regarding measurement accuracy. Establish the connection between the cable shielding and ground potential at the inlet of the cabinet or housing. This grounding allows induced interferences to dissipate and be kept away from devices in the cabinet or housing.
- **Improve shielding performance with a large contact area.**
  A low-impedance connection between shielding and ground achieves better shielding performance. For this purpose, connect the shielding over a large surface area, e.g., using the WAGO Series 790 Shield Connection System. This is especially recommended for large-scale systems where equalizing or high impulse currents may occur.

5.6 Requirements for Wiring and Accessories

The PoE splitter provides a nominal output current up to 3 A at 24 VDC depending on the power provided by the PoE Power Sourcing Equipment (e.g., PoE injector, PoE switch). During load switch-on, maximum current up to 7 A can be provided for a short time. Capacitive loads in particular have high inrush current that exceeds the nominal output current of the PoE splitter. In the event of an overload, the PoE splitter switches to protection mode and briefly interrupts the power supply to the load in order to protect itself. Protection mode is indicated by flashing of the 30/60/90 W status LEDs. In protection mode, the PoE splitter periodically resumes supplying power to the load. This makes it possible to charge capacitive loads up to about 8000 µF (e.g., LCD displays) step by step. Due to the partial charging of the load, the inrush current drops, so, in many cases, it is possible to exit protection mode after a few seconds. If the PoE splitter remains in protection mode for more than 60 seconds, the supply of power via the PoE splitter should be switched off. In this case, the load's current demand is so great that a more powerful voltage source must be used to operate the load.

The output current provided by the PoE splitter depends on the capacity of the PSE (e.g., PoE injector, PoE switch). The PoE splitter requires approximately 3 W of the received power for load-independent operation. The total maximum power loss of the PoE splitter is 10.2 W and occurs when the PoE injector supplies the maximum current.

The Ethernet cable used between the PSE and PoE splitter greatly influences the power loss. A short cable length, high cable quality and perfect cable condition can reduce power loss and increase the current available for the load. Bundling a large number of PoE cables, or laying the cables in areas with especially high ambient temperatures, can have negative effects. The following table is intended to assist with planning.

Table 1: PoE Splitter: Power Profiles and Requirements According to the PoE Standard

Available Output Power*1	Available Output Current, Vx*1	Voltage at Output Vx	PSE Power	PoE Power Class*2	PoE Standard	PoE Type	Network Cable Recommendation
71 W	3 A	24 VDC	90 W	8	IEEE 802.3bt (PoE++ / 4PPoE)	4	Cat.6 (copper cable, min. AWG 24)
51 W	2 A		60 W	6		3	Cat.5e / 6 (copper cable, min. AWG 24)
25.5 W	1 A		30 W	4	IEEE 802.3at (PoE+)	2	Min. Cat.5e (copper cable, min. AWG 26)

Available Output Power[*1]	Available Output Current, Vx[*1]	Voltage at Output Vx	PSE Power	PoE Power Class[*2]	PoE Standard	PoE Type	Network Cable Recommendation
12.95 W	0.5 A		15.4 W	3	IEEE 802.3af (PoE)	1	Min. Cat.5e (copper cable, min. AWG 28)

[*1] Expected power available on the PoE splitter. Deviations of about ±10 % are possible depending on external factors.
[*2] The table lists the most common power classes. However, the PoE splitter also supports intermediate stages, e.g., Class 7 with 75 W PSE power.

6 Transport and Storage

The original packaging offers optimal protection during transport and storage.

- Store the product in suitable packaging, preferably the original packaging.
- Only transport the product in suitable containers/packaging.
- Make sure the product contacts are not contaminated or damaged during packing or unpacking.
- Observe the specified ambient climatic conditions for transport and storage.

Long-Term Storage

- For long-term storage, power must be applied to the product for five minutes at least every two years.

7 Installation and Removal

7.1 Mounting on the DIN-Rail

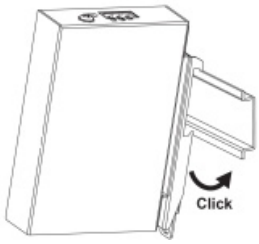


Figure 7: Mounting Product on DIN-Rail

1. Tilt the product slightly.
2. Place the product, with the DIN-rail guide, on the top edge of the DIN-rail.
3. Press the product onto the DIN-rail.
4. Push down until the product audibly snaps into place.
   ⇨ If the product does not lock into place automatically, pull down the DIN-rail mounting/removal latch with an operating tool while pressing the product onto the bottom fastener.
5. Gently shake the product to ensure that it is correctly locked into place.

7.2 Removal from the DIN-Rail

⚠ CAUTION

Hot Surface!

The surface of the housing heats up during operation. Under special conditions (e.g., in the event of a fault or increased surrounding air temperature), touching the product may cause burns.

- Allow the product to cool down before touching it!

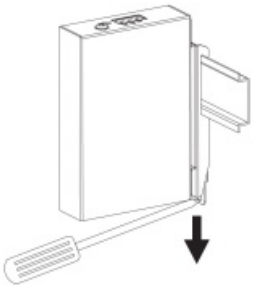


Figure 8: Removing the Product from the DIN-Rail

1. To remove the product, pull down the DIN-rail removal latch.
   Use an operating tool for this purpose.
   ⇨ The product is now unlocked.
2. Tilt the product forward and unhook it from the DIN-rail.

8 Connection

Solid conductors, as well as stranded and fine-stranded conductors with ferrules, are terminated by pushing them into Push-in CAGE CLAMP® Connectors. For all conductor types, an operating tool must be used to open the Push-in CAGE CLAMP®. Only one conductor may be connected to each clamping unit.

To connect a conductor, proceed as follows:

✓ You need an operating tool.

1. Use the operating tool to press and hold the push-button next to the connection in question in order to open the Push-in CAGE CLAMP®.
2. Insert the conductor into the corresponding connection opening (round housing opening).
3. Release the push-button to close the Push-in CAGE CLAMP®.

➡ The conductor is now securely clamped.

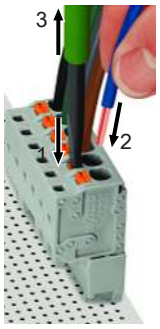


Figure 9: Connecting Conductor to Push-in CAGE CLAMP®

Removing Conductor

✓ You need an operating tool.

1. Use the operating tool to press and hold the push-button next to the connection in question in order to open the Push-in CAGE CLAMP®.
2. Remove the conductor.
3. Release the push-button to close the Push-in CAGE CLAMP®.

➡ The conductor is now detached.

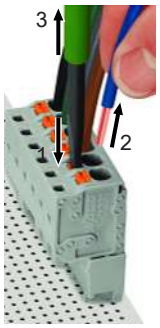
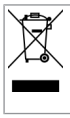


Figure 10: Removing Conductor from Push-in CAGE CLAMP®

9 Decommissioning

9.1 Disposal and Recycling

	**WEEE Mark** Electrical and electronic equipment may not be disposed of with household waste. This also applies to products without this mark.

Electrical and electronic equipment contain materials and substances that can be harmful to the environment and health. Electrical and electronic equipment must be disposed of properly after use. Environmentally friendly disposal benefits health, protects the environment from harmful substances in electrical and electronic equipment and enables sustainable and efficient use of resources.

- Observe the national and local regulations for the disposal of electrical and electronic equipment, lithium-ion batteries, lead–acid batteries and packaging.
- Clear any data stored on electrical and electronic equipment.
- Remove lithium-ion batteries, lead–acid batteries or memory cards that are added to the electrical and electronic equipment.
- Wear appropriate personal protective equipment when removing the lithium-ion batteries/lead–acid batteries.
- Dispose of the removed lithium-ion batteries/lead–acid batteries according to your local waste regulations (e. g. collection boxes at the retail or local collection points).
- Have electrical and electronic equipment sent to a local collection point.
- Dispose of all types of packaging to ensure a high level of recovery, reuse and recycling.
- Transport packages from the B2B area can be taken back free of charge via a return system in accordance with the Packaging Act. Please contact our service provider Interseroh directly. The corresponding certificate can be found at: **corporate-certificates**.
- Throughout Europe, Directives 2006/66/EC, 94/62/EC and 2012/19/EU (WEEE) apply. National directives and laws may differ.

10 Appendix

10.1 Technical Data, Approvals, Guidelines and Standards

Note

Subject to changes!

Please also observe the further product documentation! You can generate the current datasheet at any time at: www.wago.com /<item number>.

See also

Datenblatt_852-1739.pdf [▸ 24]

Data Sheet | Item Number: 852-1739

Industrial PoE Splitter; PoE++; 24 VDC output voltage; 3 A; 10/100/1000 BASE

https://www.wago.com/852-1739

The device is a WAGO Industrial PoE Splitter featuring two Gigabit Ethernet ports and a 24 VDC output. It enables both power supply and data connection for decentralized control cabinets using a single Ethernet cable. The WAGO Industrial PoE Splitter provides a stable 24 VDC output with a nominal current of up to 3 A. Typical applications include supplying programmable logic controllers, industrial PCs, HMI panels, network switches, access points, and surveillance cameras. The 24 VDC output features electronic overload protection, enabling the device to deliver short-term peak currents of up to 7 A. This supports charging capacitive loads and enables, for example, the startup of compatible LCD displays.
The WAGO Industrial PoE Splitter (Powered Device, PD) is connected to PoE power sourcing equipment (PSE) via an Ethernet port, in accordance with IEEE 802.3 af/at/bt (4PPoE). Suitable devices include the WAGO PoE Switch (Item No. 852-1813/000-001) or a WAGO PoE Injector (Item No. 852-1731, 852-1732). When supplied through a managed PoE port, the 24 VDC output can be switched on and off remotely. This enables targeted rebooting of decentralized control cabinets and increases system availability.
The device operates as a transparent Layer-1 inline unit (Ethernet pass-through), forwarding the Ethernet signal from the 10/100/1000BASE-T input port to the output port without modification.
Thanks to its robust design and extended temperature range of –40 to +60°C, the WAGO Industrial PoE Splitter delivers stable, reliable performance under harsh environmental conditions. Its compact housing with DIN-rail adapter enables easy installation in control cabinets. High resistance to temperature, vibration, and shock, informative status LEDs, a switch-activated output, and commissioning without additional software tools contribute to convenient and safe handling.

Key Features:
· Nominal current: up to 30 A with PoE++ or 1 A with PoE+
· Switchable output voltage
· Compatible with Ethernet standards IEEE 802.3i, 802.3u, and 802.3ab
· Compatible with PoE standards IEEE 802.3af, 802.3at, and IEEE 802.3bt
· Overload and short-circuit protection

Technical data

Supply voltage	24 VDC; per PoE-Port
Nominal output voltage	24 VDC (2 outputs)
Transmission rate	Copper cable: 100/1000 Mbit/s
Transmission medium (communication/fieldbus)	Copper cable: Cat. 5e or better, Cat. 6 or better recommended from 60 W PoE power, 100 m maximum cable length

Connection Data

Connection technology: communication/fieldbus	Copper cable: 2 x RJ-45
Connection technology: supply	1 x Built-in male connector: 231-434/001-000; included female connector *MCS* Connectors): 231-104/026-000
Solid conductor	0.75 mm² / 20 AWG

Physical data

Width	25 mm / 0.98 inches
Height	116 mm / 4.57 inches
Depth	100 mm / 3.93 inches
Depth from upper-edge of DIN-rail	103 mm / 4.055 inches

Continued on next page

Mechanical data

Weight	280 g

Environmental requirements

Ambient temperature (operation)	-40 … +60 °C
Ambient temperature (storage)	-40 … +85 °C
Fire load	0 MJ

Commercial data

PU (SPU)	1 pcs
Packaging type	Box
Country of origin	TW
GTIN	4066966842753
Customs tariff number	85176200000

Environmental Product Compliance

RoHS Compliance Status	Compliant,No Exemption

Approvals / Certificates

General approvals

Approval	Standard	Certificate Name
UL Underwriters Laboratories Inc. (ORDINARY LOCATIONS)	UL 61010-2-201	E175199

Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-

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