

Data sheet | Item number: 852-112  
Industrial-ECO-Switch; 8-port 100Base-TX; black

[www.wago.com/852-112](http://www.wago.com/852-112)



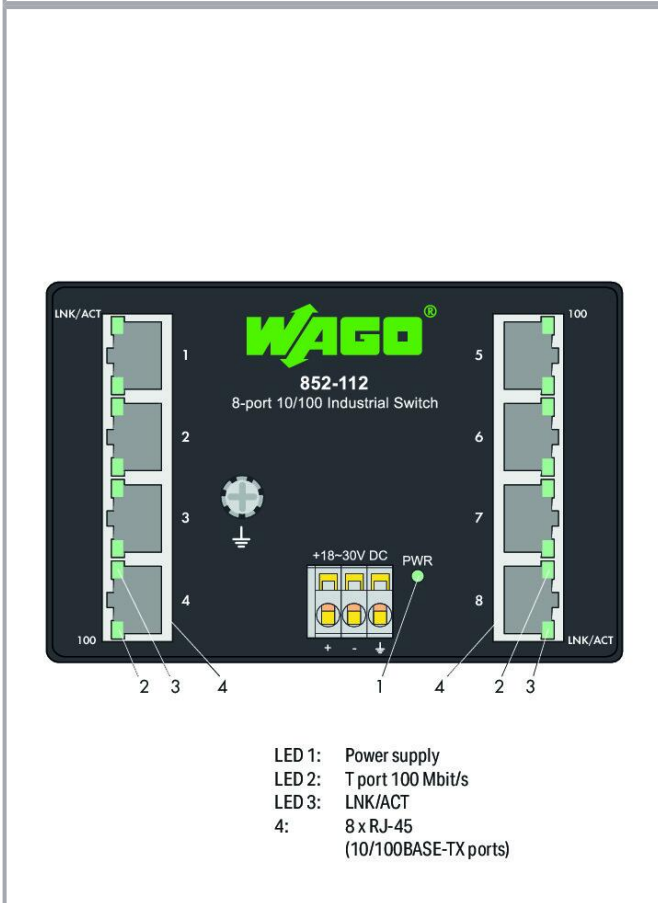
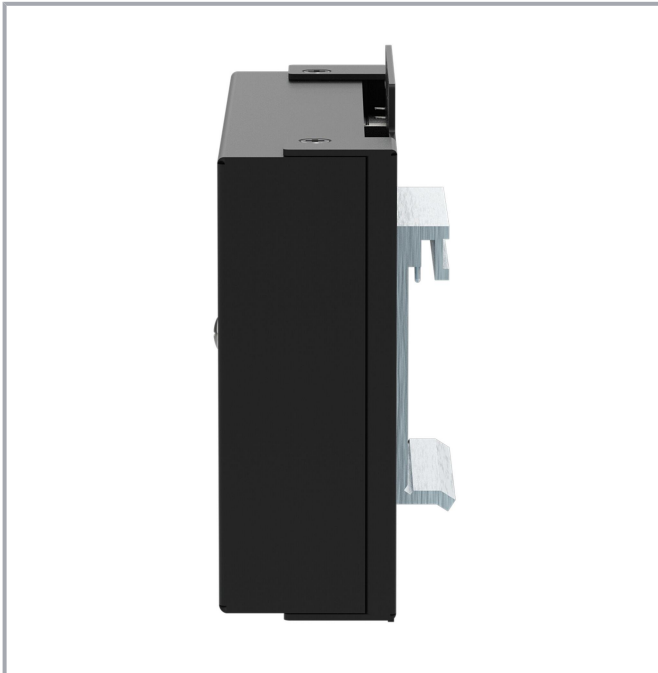
Color: ■



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WAGO GmbH & Co. KG  
Hansastr. 27  
32423 Minden  
Phone: +49571 887-0 | Fax: +49571 887-169  
Email: [info.de@wago.com](mailto:info.de@wago.com) | Web: [www.wago.com](http://www.wago.com)

Do you have any questions about our products?  
We are always happy to take your call at +49 (571) 887-44222.



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## Successor model



Item no.852-112/000-001  
Industrial-ECO-Switch; 8-port 100Base-TX; black

[www.wago.com/852-112/000-001](http://www.wago.com/852-112/000-001)

## Item description

This unmanaged industrial ETHERNET switch (852-112) has eight Fast ETHERNET ports for easily setting up small- to medium-sized networks. Its slim design paired with a DIN-rail adapter simplifies installation in the control cabinet and provides high vibration and shock resistance. Additionally, automatic transmission rate detection (auto-negotiation) and automatic identification of the transmit and receive lines (Auto MDI-X) allow simple plug-and-play operation, saving time and money during commissioning.

### Features:

- 8 ETHERNET ports 10/100 Mbit/s Autonegotiation
- Front-panel diagnostic LEDs
- Supports Auto-MDI/MDI-X functions
- Full/half-duplex transfer modes for each port
- Store-and-forward switching method
- Integrated address look-up table, supports 2000 absolute MAC addresses
- Overvoltage protection
- Data flow control, per IEEE 802.3x Flow Control, in full-duplex mode
- DIN-35 rail mounting

## Data

### Technical data

|  |   |
|--|---|
| Switching mode                               | Store-and-forward; non-blocking   |
| Number of 100 Mbit/s ports                   | 8   |
| Communication standards                      | IEEE 802.3 10BASE-T<br>IEEE 802.3u 100BASE-TX<br>IEEE 802.3x Flow Control |
| MAC table (size)                             | 2000 addresses  |
| Jumbo frame size                             | 1536. Byte  |
| Supply voltage                               | 18 ... 30 VDC   |
| Power consumption (max.)                     | 3 W   |
| ESD (contact/air discharge)                  | 4 KV / 8 KV   |
| Baud rate                                    | Copper cable: 10/100 Mbit/s   |
| Transmission medium (communication/fieldbus) | Copper cable: Cat. 5 or higher, 100 m maximum cable length                |
| Topology                                     | Star  |
| Indicators                                   | Device: LED (PWR) green: Power supply; per port: LED (100, LNK)           |

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/ACT) green: Status 100 Mbps, LNK/ACT ports 1 ... 8

## Connection data

|   |  |
|---|--|
| Connection technology: communication/fieldbus | Copper cable: 8 x RJ-45                  |
| Connection technology: supply                 | 1 x Built-in PCB terminal block: 739-103 |

## Physical data

|                                   |                         |
|-----------------------------------|-------------------------|
| Width                             | 109.2 mm / 4.299 inches |
| Height                            | 73.8 mm / 2.906 inches  |
| Depth                             | 24 mm                   |
| Depth from upper-edge of DIN-rail | 32 mm / 1.26 inches     |

## Mechanical Data

|                  |             |
|------------------|-------------|
| Weight           | 415 g       |
| Color            | black       |
| Housing material | Sheet steel |

## Environmental requirements

|  |                                 |
|--|---------------------------------|
| Ambient temperature (operation)          | -40 ... +70 °C (UL max. +60 °C) |
| Surrounding air temperature (storage)    | -40 ... +80 °C                  |
| Protection type                          | IP30                            |
| Relative humidity (without condensation) | 95 %                            |
| Mounting type                            | DIN-35 rail                     |
| Vibration resistance                     | per IEC 60068-2-6               |
| Shock resistance                         | per IEC 60068-2-27              |

## Commercial data

|                   |                             |
|-------------------|-----------------------------|
| Product Group     | 27 (special components I/O) |
| eCl@ss 10.0       | 19-17-01-30                 |
| eCl@ss 9.0        | 19-17-01-06                 |
| ETIM 8.0          | EC000734                    |
| ETIM 7.0          | EC000734                    |
| PU (SPU)          | 1 pcs                       |
| Packaging type    | box                         |
| Country of origin | TW                          |
| GTIN              | 4045454847586               |




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Customs tariff number

8517620000

## Approvals / Certificates







### General approvals

| Logo   | Approval  | Additional Approval Text | Certificate name            |
|--|---|--------------------------|-----------------------------|
|  | EAC<br>Brjansker Zertifizierungsstelle                    | TP TC 020/2011           | EAC RU C-DE.AM02.B.00087/19 |
|   | KC<br>National Radio Research Agency                      | Article 58-2, Clause 3   | MSIP-REM-W43-ISW852         |
|  | UL<br>Underwriters Laboratories Inc. (ORDINARY LOCATIONS) | UL 508                   | E175199 Sec.7               |

## Optional accessories

### Cables and pluggable connectors

#### Connector plug

|  |   |  |
|--|---|--|
|  | <b>Item no.: 750-975</b><br>ETHERNET RJ-45 connector, IP20; ETHERNET 10/100 Mbit/s; for field assembly              | <a href="http://www.wago.com/750-975">www.wago.com/750-975</a>                 |
|  | <b>Item no.: 750-976</b><br>PROFINET RJ-45 connector, IP20; ETHERNET 10/100 Mbit/s; for field assembly              | <a href="http://www.wago.com/750-976">www.wago.com/750-976</a>                 |
|  | <b>Item no.: 750-978/000-012</b><br>Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 22; Strain relief | <a href="http://www.wago.com/750-978/000-012">www.wago.com/750-978/000-012</a> |
|  | <b>Item no.: 750-979/000-012</b><br>Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568B; AWG 22; Strain relief   | <a href="http://www.wago.com/750-979/000-012">www.wago.com/750-979/000-012</a> |
|  | <b>Item no.: 750-978/000-021</b><br>Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 24; Strain relief | <a href="http://www.wago.com/750-978/000-021">www.wago.com/750-978/000-021</a> |
|  | <b>Item no.: 750-979/000-022</b><br>Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568B; AWG 24; Strain relief   | <a href="http://www.wago.com/750-979/000-022">www.wago.com/750-979/000-022</a> |

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**Item no.: 750-978/000-022**  
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 24; Strain relief

[www.wago.com/750-978/000-022](http://www.wago.com/750-978/000-022)



**Item no.: 750-979/000-011**  
Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568A; AWG 22; Strain relief

[www.wago.com/750-979/000-011](http://www.wago.com/750-979/000-011)



**Item no.: 750-979/000-013**  
Connector PROFINET; RJ-45; Cat. 6A; angled; AWG 22; Strain relief

[www.wago.com/750-979/000-013](http://www.wago.com/750-979/000-013)



**Item no.: 750-979/000-021**  
Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568A; AWG 24; Strain relief

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[www.wago.com/750-977/000-021](http://www.wago.com/750-977/000-021)

## Power supplies





Power supply unit







**Item no.: 787-1722**  
Switched-mode power supply; Eco; 1-phase; 24 VDC output voltage; 5 A output current; DC-OK LED

[www.wago.com/787-1722](http://www.wago.com/787-1722)

Subject to changes. Please also observe the further product documentation!

|  |   |  |
|--|---|--|
|  | <b>Item no.: 787-1712</b><br>Switched-mode power supply; Eco; 1-phase; 24 VDC output voltage; 2.5 A output current; DC-OK LED     | <a href="http://www.wago.com/787-1712">www.wago.com/787-1712</a> |
|  | <b>Item no.: 787-1702</b><br>Switched-mode power supply; Eco; 1-phase; 24 VDC output voltage; 1.25 A output current; DC-OK LED    | <a href="http://www.wago.com/787-1702">www.wago.com/787-1702</a> |
|  | <b>Item no.: 787-1102</b><br>Switched-mode power supply; Compact; 1-phase; 24 VDC output voltage; 1.3 A output current; DC-OK LED | <a href="http://www.wago.com/787-1102">www.wago.com/787-1102</a> |
|  | <b>Item no.: 787-1226</b><br>Switched-mode power supply; Compact; 1-phase; 24 VDC output voltage; 6 A output current; DC-OK LED   | <a href="http://www.wago.com/787-1226">www.wago.com/787-1226</a> |

**Interface module**

|  |  |  |
|--|--|--|
| Interface module   |  |  |
|    | <b>Item no.: 289-195</b><br>Interface module; RJ-45; IDC technology; Cat. 6; in mounting carrier; with shield connection   | <a href="http://www.wago.com/289-195">www.wago.com/289-195</a> |
|    | <b>Item no.: 289-175</b><br>Interface module; RJ-45; PCB terminal blocks, double-row; Cat. 5; in mounting carrier; with shield connection; with shield clamping saddle; 1,50 mm <sup>2</sup> | <a href="http://www.wago.com/289-175">www.wago.com/289-175</a> |
|    | <b>Item no.: 289-172</b><br>Interface module; RJ-45; RJ-45; Cat. 5; in mounting carrier  | <a href="http://www.wago.com/289-172">www.wago.com/289-172</a> |
|  | <b>Item no.: 289-196</b><br>Interface module; RJ-45; with power jumper contacts; PCB terminal blocks; Cat. 5   | <a href="http://www.wago.com/289-196">www.wago.com/289-196</a> |

**Downloads**

**Documentation**

**Manual**

|  |                         |               |          |
|--|-------------------------|---------------|----------|
| Product Manual 8-Port 100BASE-TX Industrial ECO Switch | V 1.0.2<br>Jul 14, 2020 | pdf<br>1.1 MB | Download |
|--|-------------------------|---------------|----------|

**Bid Text**

|                         |              |                |          |
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| 852-112<br>doc - Datei  | Oct 9, 2017  | doc<br>27.6 kB | Download |
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**Installation manual**

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### System Description

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#### CAD data

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#### Compliance Search

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### Installation Notes

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WAGO GmbH & Co. KG

Hansastr. 27

32423 Minden

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