

**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:**

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

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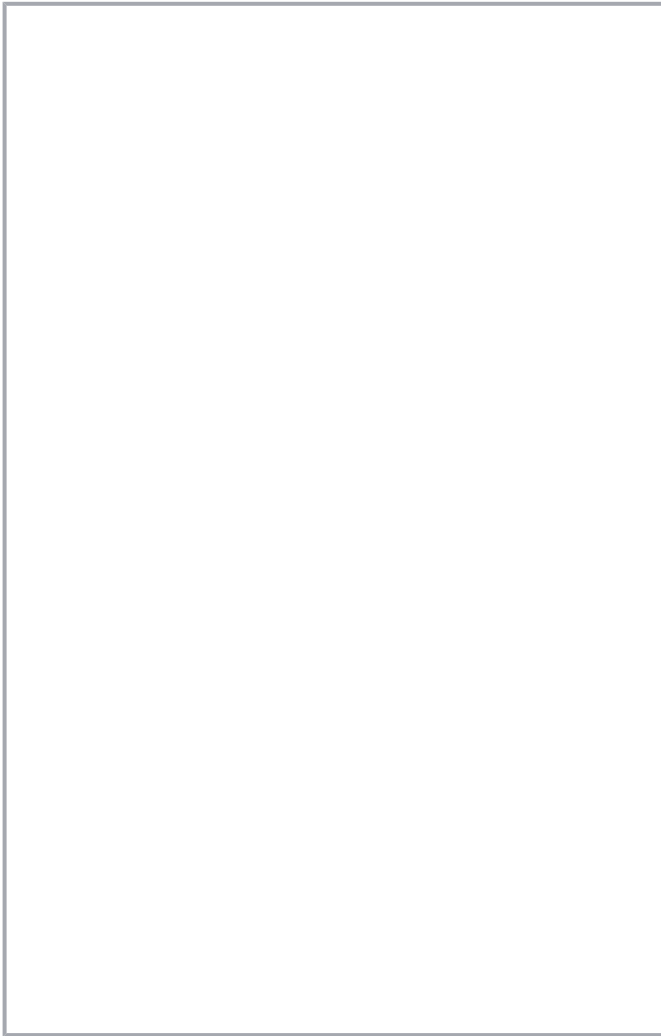


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**Successor model**

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

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- 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 IEEE 802.3u 100BASE-TX 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 /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
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Subject to changes. Please also observe the further product documentation!



Color	black
Housing material	Sheet steel

### Environmental requirements

Ambient temperature (operation)	-40 ... +70 °C (UL max. +60 °C)
Ambient 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
Recupel Type	
PU (SPU)	1 pcs
Packaging type	box
Country of origin	TW
GTIN	4045454847586
Customs tariff number	85176200000

### Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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### Approvals / Certificates

#### General approvals

Logo	Approval	Additional Approval Text	Certificate name
	<b>EAC</b> Brjansker Zertifizierungsstelle	TP TC 020/2011	EAC RU C-DE.AM02.B.00087/19
	<b>KC</b> National Radio Research Agency	Article 58-2, Clause 3	MSIP-REM-W43-

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ISW852

**UL** UL 508  
Underwriters Laboratories Inc. (ORDINARY LOCATIONS)

E175199  
Sec.7

## Optional accessories

### Interface module

#### Interface module

<b>Item no.: 289-195</b> 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> 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> 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> 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>

### Cables and pluggable connectors

#### Connector plug

<b>Item no.: 750-975</b> 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> 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> 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> 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> 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> 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>
<b>Item no.: 750-978/000-022</b> Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 24; Strain relief	<a href="http://www.wago.com/750-978/000-022">www.wago.com/750-978/000-022</a>

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**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

[www.wago.com/750-979/000-021](http://www.wago.com/750-979/000-021)

**Item no.: 750-977/000-011**

Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 22

[www.wago.com/750-977/000-011](http://www.wago.com/750-977/000-011)

**Item no.: 750-978/000-013**

Connector PROFINET; RJ-45; Cat. 6A; straight; AWG 22; Strain relief

[www.wago.com/750-978/000-013](http://www.wago.com/750-978/000-013)

**Item no.: 750-978/000-011**

Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 22; Strain relief

[www.wago.com/750-978/000-011](http://www.wago.com/750-978/000-011)

**Item no.: 750-977/000-022**

Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 24

[www.wago.com/750-977/000-022](http://www.wago.com/750-977/000-022)

**Item no.: 750-977/000-012**

Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 22

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**Item no.: 750-977/000-013**

Connector PROFINET; RJ-45; Cat. 6A; straight; AWG 22

[www.wago.com/750-977/000-013](http://www.wago.com/750-977/000-013)

**Item no.: 750-977/000-021**

Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 24

[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)

**Item no.: 787-1712**

Switched-mode power supply; Eco; 1-phase; 24 VDC output voltage; 2.5 A output current; DC-OK LED

[www.wago.com/787-1712](http://www.wago.com/787-1712)

**Item no.: 787-1702**

Switched-mode power supply; Eco; 1-phase; 24 VDC output voltage; 1.25 A output current; DC-OK LED

[www.wago.com/787-1702](http://www.wago.com/787-1702)

**Item no.: 787-1102**

Switched-mode power supply; Compact; 1-phase; 24 VDC output voltage; 1.3 A output current; DC-OK

[www.wago.com/787-1102](http://www.wago.com/787-1102)

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LED

**Item no.: 787-1226**

Switched-mode power supply; Compact; 1-phase; 24 VDC output voltage; 6 A output current; DC-OK

[www.wago.com/787-1226](http://www.wago.com/787-1226)

LED

**Downloads****Documentation****Manual**

Product Manual 8-Port 100BASE-TX Industrial ECO Switch	V 1.0.2 2020 年7月14 日	pdf 1.1 MB	Download
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**Installation manual**

Gebrauchs- und Montageanleitung 852-111 / 852-112		pdf 1.7 MB	Download
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**Additional Information**

Disposal and Recycling Electrical and electronic equipment, Batteries, Packaging	V 1.1.0 2022 年8月18 日	pdf 2.2 MB	Download
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**System Description**

Industrial Switches – General Product Information		pdf 1.9 MB	Download
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**CAD/CAE-Data****CAD data**

2D/3D Models 852-112		URL	Download
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**CAE data**

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## Environmental Product Compliance

### Compliance Search

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## Installation Notes

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