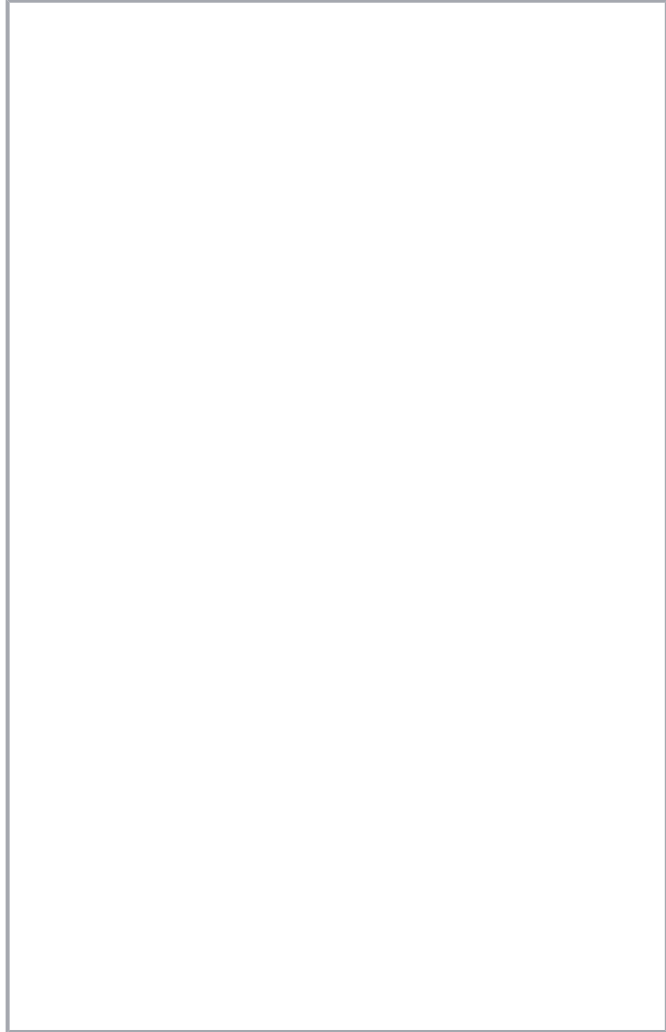
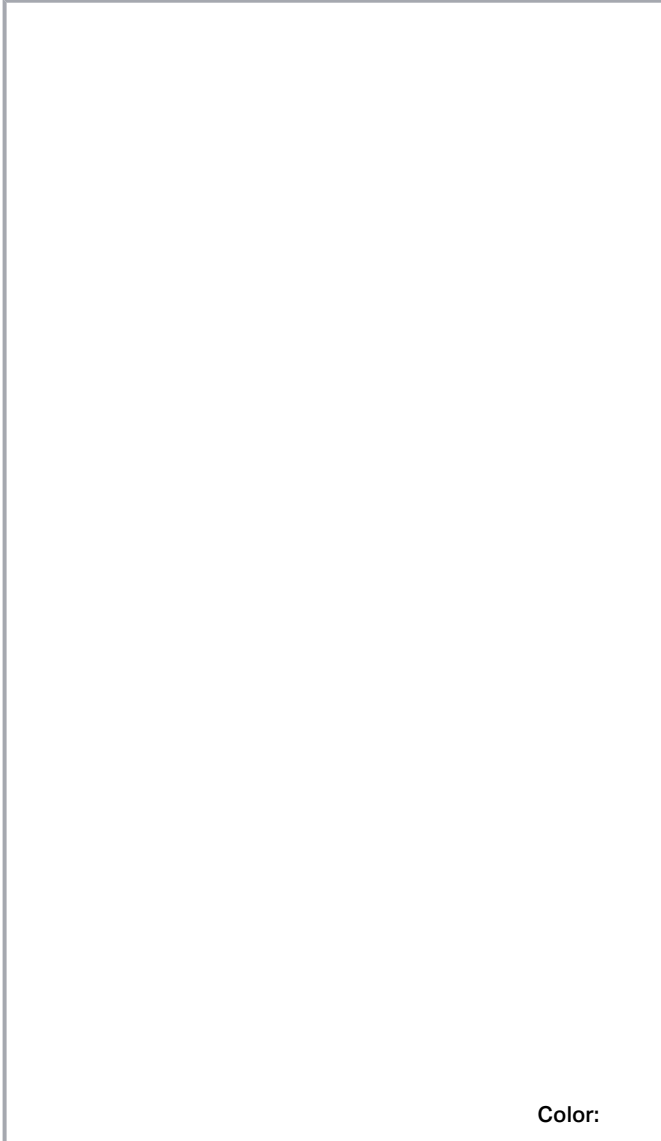


**Data sheet | Item number: 852-111**

Industrial-ECO-Switch; 5-port 100Base-TX; black

[www.wago.com/852-111](http://www.wago.com/852-111)



Color:

**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 no.852-111/000-001**  
Industrial-ECO-Switch; 5-port 100Base-TX; black

[www.wago.com/852-111/000-001](http://www.wago.com/852-111/000-001)

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

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## Item description

This unmanaged industrial ETHERNET switch (852-111) has five 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:

- 5 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	5
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 port 1 ... 5

### Connection data

Connection technology: communication/fieldbus	Copper cable: 5 x RJ-45
Connection technology: supply	1 x Built-in male connector: 231-433/001-000; included female connector (MCS Connectors): 231-103/026-000

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



## Physical data

Width	23.4 mm / 0.921 inches
Height	109.2 mm / 4.299 inches
Depth from upper-edge of DIN-rail	73.8 mm / 2.906 inches

## Mechanical Data

Weight	302 g
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	Wall mount (horizontal or vertical)
Vibration resistance	per IEC 60068-2-6
Shock resistance	per IEC 60068-2-27
Fire load	5.28 MJ

## 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	4045454847593
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-ISW852
	<b>UL</b> Underwriters Laboratories Inc. (ORDINARY LOCATIONS)	UL 508	E175199 Sec.7

### Declarations of conformity and manufacturer's declarations

Logo	Approval	Additional Approval Text	Certificate name
	<b>EU-Declaration of Conformity</b> WAGO GmbH & Co. KG	-	-
	<b>UK-Declaration of Conformity</b> WAGO GmbH & Co. KG	-	-

### Approvals for marine applications

Logo	Approval	Additional Approval Text	Certificate name
	<b>DNV GL</b> Det Norske Veritas, Germanischer Lloyd	DNVGL-CG-339,Nov.2016	TAA0000239

## Optional accessories

### 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>

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<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>
<b>Item no.: 750-979/000-011</b> Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568A; AWG 22; Strain relief	<a href="http://www.wago.com/750-979/000-011">www.wago.com/750-979/000-011</a>
<b>Item no.: 750-979/000-013</b> Connector PROFINET; RJ-45; Cat. 6A; angled; AWG 22; Strain relief	<a href="http://www.wago.com/750-979/000-013">www.wago.com/750-979/000-013</a>
<b>Item no.: 750-979/000-021</b> Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568A; AWG 24; Strain relief	<a href="http://www.wago.com/750-979/000-021">www.wago.com/750-979/000-021</a>
<b>Item no.: 750-977/000-011</b> Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 22	<a href="http://www.wago.com/750-977/000-011">www.wago.com/750-977/000-011</a>
<b>Item no.: 750-978/000-013</b> Connector PROFINET; RJ-45; Cat. 6A; straight; AWG 22; Strain relief	<a href="http://www.wago.com/750-978/000-013">www.wago.com/750-978/000-013</a>
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<b>Item no.: 750-977/000-022</b> Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 24	<a href="http://www.wago.com/750-977/000-022">www.wago.com/750-977/000-022</a>
<b>Item no.: 750-977/000-012</b> Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 22	<a href="http://www.wago.com/750-977/000-012">www.wago.com/750-977/000-012</a>
<b>Item no.: 750-977/000-013</b> Connector PROFINET; RJ-45; Cat. 6A; straight; AWG 22	<a href="http://www.wago.com/750-977/000-013">www.wago.com/750-977/000-013</a>
<b>Item no.: 750-977/000-021</b> Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 24	<a href="http://www.wago.com/750-977/000-021">www.wago.com/750-977/000-021</a>

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**Power supplies**

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## Power supply unit

<b>Item no.: 787-1722</b> Switched-mode power supply; Eco; 1-phase; 24 VDC output voltage; 5 A output current; DC-OK LED	<a href="http://www.wago.com/787-1722">www.wago.com/787-1722</a>
<b>Item no.: 787-1712</b> 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> 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> 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> 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>

## Mounting

## Mounting accessories

<b>Item no.: 852-9101</b> DNV Carrier rail adapter; for ETHERNET Switches 852-111/ 852-1111 marine approval; -	<a href="http://www.wago.com/852-9101">www.wago.com/852-9101</a>
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## 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>

## Downloads

## Documentation

## Manual

Product Manual 5-Port 100BASE-TX Industrial ECO Switch	V 1.3.1 2020 年7月14日	pdf 994.5 kB	Download
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## Bid Text

852-111 X81 - Datei	2019 年2月19日	xml 5.3 kB	Download
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Gebrauchs- und Montageanleitung 852-111 / 852-112		pdf 1.7 MB	Download
<b>System Description</b>			
Industrial Switches – General Product Information		pdf 1.9 MB	Download
<b>Additional Information</b>			
Disposal and Recycling Electrical and electronic equipment, Batteries, Packaging	V 1.1.0 2022 年8月18日	pdf 2.2 MB	Download

## CAD/CAE-Data

### CAD data

2D/3D Models 852-111		URL	Download
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### CAE data

ZUKEN Portal 852-111		URL	Download
EPLAN Data Portal 852-111		URL	Download
WSCAD Universe 852-111		URL	Download

## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 852-111 Industrial-ECO-Switch; 5-port 100Base-TX; black		URL	Download
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## Installation Notes

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