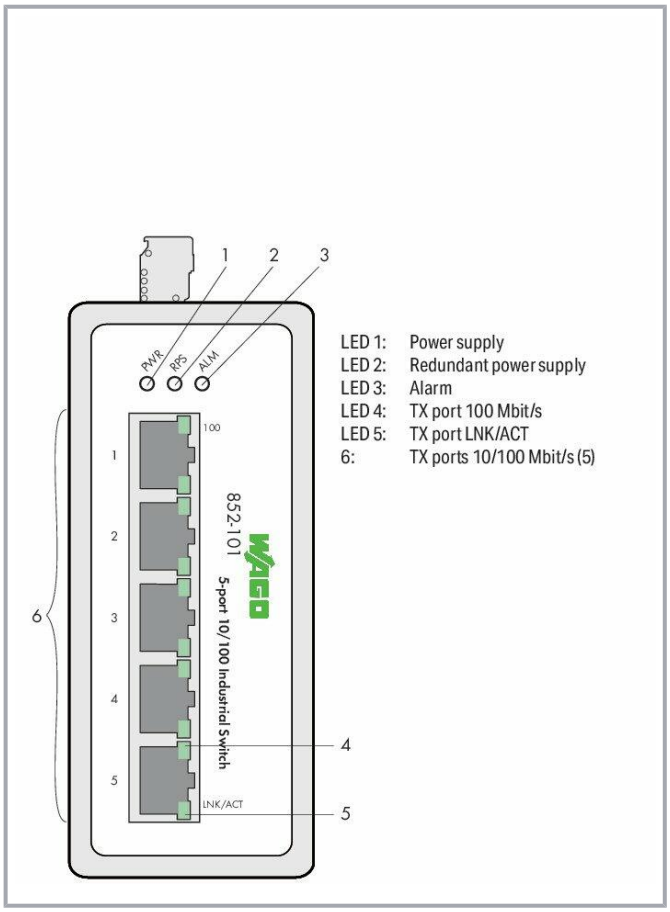
# Data sheet | Item number: 852-101

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

www.wago.com/852-101




## Item description

The 852-101 Industrial Switch is a 5-port 10/100Base-TX ETHERNET switch.

Packaged in a rugged housing, this switch offers both a redundant power supply and relay-based function monitoring. These functions make it ideal for a wide range of applications.

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

- Redundant DC power supply
- Large supply voltage range: 9 … 48 V
- DIP switches to set alarm functions
- Full compliance with IEEE802.3, 802.3u stantards
- Non-blocking, store-and-forward switching
- Autonegotiation at all 10/100Base-TX ports
- Auto-MDI/MDIX (crossover) at all 10/100Base-TX ports

## Data

### Technical data

| | |
|---|---|
| Switching mode | Store-and-forward; non-blocking |
| Number of 100Base-TX ports | 5 |
| Communication standards | IEEE 802.3 10BASE-T<br>IEEE 802.3u 100BASE-TX<br>IEEE 802.3x Flow Control |
| Redundancy function | Redundant DC power supply |
| Configuration options | DIP switch for signal contact |
| Diagnostics | Signal contact |
| MAC table (size) | 2000 addresses |
| Jumbo frame size | 1536. Byte |
| Supply voltage | 9 … 48 VDC; Cable length:< 3 m |
| Power consumption (max.) | 3.84 W |
| Power consumption typ. (24 V) | 3.36 W |
| ESD (contact/air discharge) | 8 KV / 15 KV |
| Baud rate | Copper cable: 10/100 Mbit/s |
| Transmission medium (communication/fieldbus) | Copper cable: Cat. 5 or higher, 100 m maximum cable length |
| Controls | 8 x DIP switch: Alarm function power supplies and ports 1 … 5, QoS function port 1 |
| Indicators | Device: LED (PWR, RPS) green: Power supply (primary), redundant power supply (secondary); LED (ALM) red: Alarm; per port: LED (100, LNK/ACT) green: Status 100 Mbps, LNK/ACT ports 1 … 5 |

### Connection data

| | |
|---|---|
| Connection technology: communication/fieldbus | Copper cable: 5 x RJ-45 |
| Connection technology: supply | 1 x Built-in male connector: 231-436/001-000; included female connector (*MCS* Connectors): 231-106/026-000 |

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## Physical data

| | |
|---|---|
| Width | 50 mm / 1.969 inch |
| Height | 105 mm / 4.134 inch |
| Depth | 120 mm / 4.724 inch |

## Mechanical data

| | |
|---|---|
| Weight | 613.3 g |
| Color | black |
| Housing material | Aluminum |
| Conformity marking | CE |

## Environmental requirements

| | |
|---|---|
| Surrounding air 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 |
| EMC immunity to interference | per EN 61000-6-2 |
| EMC emission of interference | per EN 61000-6-4 |

## Commercial data

| | |
|---|---|
| Product Group | 27 (Special components I/O) |
| PU (SPU) | 1 Stück |
| Packaging type | box |
| Country of origin | TW |
| GTIN | 4045454665937 |
| Customs tariff number | 85176200000 |

## Approvals / Certificates

### Country specific Approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|---|---|---|---|
| | **KC**<br>National Radio Research Agency | Article 58-2, Clause 3 | MSIP-REM-W43-ISW852 |

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## Optional accessories

### Cables and pluggable connectors

Connector plug

| | | |
|---|---|---|
|  | Item no.: 750-975<br>ETHERNET RJ-45 connector, IP20; ETHERNET 10/100 Mbit/s; for field assembly | www.wago.com/750-975 |
|  | Item no.: 750-976<br>PROFINET RJ-45 connector, IP20; ETHERNET 10/100 Mbit/s; for field assembly | www.wago.com/750-976 |
|  | Item no.: 750-978/000-012<br>Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 22; Strain relief | www.wago.com/750-978<br>/000-012 |
|  | Item no.: 750-979/000-012<br>Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568B; AWG 22; Strain relief | www.wago.com/750-979<br>/000-012 |
|  | Item no.: 750-978/000-021<br>Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 24; Strain relief | www.wago.com/750-978<br>/000-021 |
|  | Item no.: 750-979/000-022<br>Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568B; AWG 24; Strain relief | www.wago.com/750-979<br>/000-022 |
|  | Item no.: 750-978/000-022<br>Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 24; Strain relief | www.wago.com/750-978<br>/000-022 |
|  | Item no.: 750-979/000-011<br>Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568A; AWG 22; Strain relief | www.wago.com/750-979<br>/000-011 |
|  | Item no.: 750-979/000-013<br>Connector PROFINET; RJ-45; Cat. 6A; angled; AWG 22; Strain relief | www.wago.com/750-979<br>/000-013 |
|  | Item no.: 750-979/000-021<br>Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568A; AWG 24; Strain relief | www.wago.com/750-979<br>/000-021 |
|  | Item no.: 750-977/000-011<br>Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 22 | www.wago.com/750-977<br>/000-011 |
|  | Item no.: 750-978/000-013<br>Connector PROFINET; RJ-45; Cat. 6A; straight; AWG 22; Strain relief | www.wago.com/750-978<br>/000-013 |

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| | | |
|---|---|---|
|  | **Item no.: 750-978/000-011**<br>Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 22; Strain relief | www.wago.com/750-978/000-011 |
|  | **Item no.: 750-977/000-022**<br>Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 24 | www.wago.com/750-977/000-022 |
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|  | **Item no.: 750-977/000-021**<br>Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 24 | www.wago.com/750-977/000-021 |

**Interface module**

Interface module

| | | |
|---|---|---|
|  | **Item no.: 289-195**<br>Interface module; RJ-45; IDC technology; Cat. 6; in mounting carrier; with shield connection | www.wago.com/289-195 |
| | **Item no.: 289-175**<br>Interface module; RJ-45; PCB terminal blocks, double-row; Cat. 5; in mounting carrier; with shield connection; with shield clamping saddle; 1,50 mm² | www.wago.com/289-175 |
|  | **Item no.: 289-172**<br>Interface module; RJ-45; RJ-45; Cat. 5; in mounting carrier | www.wago.com/289-172 |
|  | **Item no.: 289-196**<br>Interface module; RJ-45; with power jumper contacts; PCB terminal blocks; Cat. 5 | www.wago.com/289-196 |

**Power supplies**

Power supply

| | | |
|---|---|---|
|  | **Item no.: 787-1722**<br>Switched-mode power supply; Eco; 1-phase; 24 VDC output voltage; 5 A output current; DC-OK LED | www.wago.com/787-1722 |
|  | **Item no.: 787-1712**<br>Switched-mode power supply; Eco; 1-phase; 24 VDC output voltage; 2.5 A output current; DC-OK LED | www.wago.com/787-1712 |
|  | **Item no.: 787-1702**<br>Switched-mode power supply; Eco; 1-phase; 24 VDC output voltage; 1.25 A output current; DC-OK LED | www.wago.com/787-1702 |
|  | **Item no.: 787-1632**<br>Switched-mode power supply; Classic; 1-phase; 24 VDC output voltage; 10 A output current; TopBoost; DC OK contact | www.wago.com/787-1632 |
|  | **Item no.: 787-1102**<br>Switched-mode power supply; Compact; 1-phase; 24 VDC output voltage; 1.3 A output current; DC OK | www.wago.com/787-1102 |

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| | | |
|---|---|---|
| | signal | |
| | **Item no.: 787-1112**<br>Switched-mode power supply; Compact; 1-phase; 24 VDC output voltage; 2.5 A output current; DC OK signal | www.wago.com/787-1112 |
|  | **Item no.: 787-1122**<br>Switched-mode power supply; Compact; 1-phase; 24 VDC output voltage; 4 A output current | www.wago.com/787-1122 |
| | **Item no.: 787-1602**<br>Switched-mode power supply; Classic; 1-phase; 24 VDC output voltage; 1 A output current; NEC Class 2; DC OK signal | www.wago.com/787-1602 |
| | **Item no.: 787-1622**<br>Switched-mode power supply; Classic; 1-phase; 24 VDC output voltage; 5 A output current; TopBoost; DC OK contact | www.wago.com/787-1622 |
| | **Item no.: 787-1606**<br>Switched-mode power supply; Classic; 1-phase; 24 VDC output voltage; 2 A output current; NEC Class 2; DC OK signal | www.wago.com/787-1606 |

## Downloads

### Documentation

#### Manual

| | | | |
|---|---|---|---|
| 5-Port 100BASE-TX Industrial Switch | V 1.0.3<br>2020. 7. 14. | pdf<br>1.1 MB | Download |

#### Bid Text

| | | | |
|---|---|---|---|
| 852-101<br>docx - Datei | 2018. 5. 9. | docx<br>16.8 kB | Download |
| 852-101<br>X81 - Datei | 2019. 2. 19. | xml<br>4.5 kB | Download |

#### Instruction Leaflet

| | | | |
|---|---|---|---|
| Gebrauchs- und Montageanleitung 852-101 /852-102 / 852-103 / 852-104 | | pdf<br>1.7 MB | Download |

#### Additional Information

| | | | |
|---|---|---|---|
| Disposal; Electrical and electronic equipment, Packaging | V 1.0.0 | pdf<br>265.8 kB | Download |

#### System Description

| | | | |
|---|---|---|---|
| Industrial Switches – General Product Information | | pdf | Download |

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| | |
|---|---|
| | 2.0 MB |

## CAD/CAE-Data

### CAD data

| | | |
|---|---|---|
| 2D/3D Models 852-101 | URL | Download |

### CAE data

| | | |
|---|---|---|
| EPLAN Data Portal 852-101 | URL | Download |
| WSCAD Universe 852-101 | URL | Download |
| ZUKEN Portal 852-101 | URL | Download |

## Environmental Product Compliance

### Compliance Search

| | | |
|---|---|---|
| Environmental Product Compliance 852-101<br>Industrial-Switch; 5-port 100Base-TX; black | URL | Download |

## Installation Notes



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