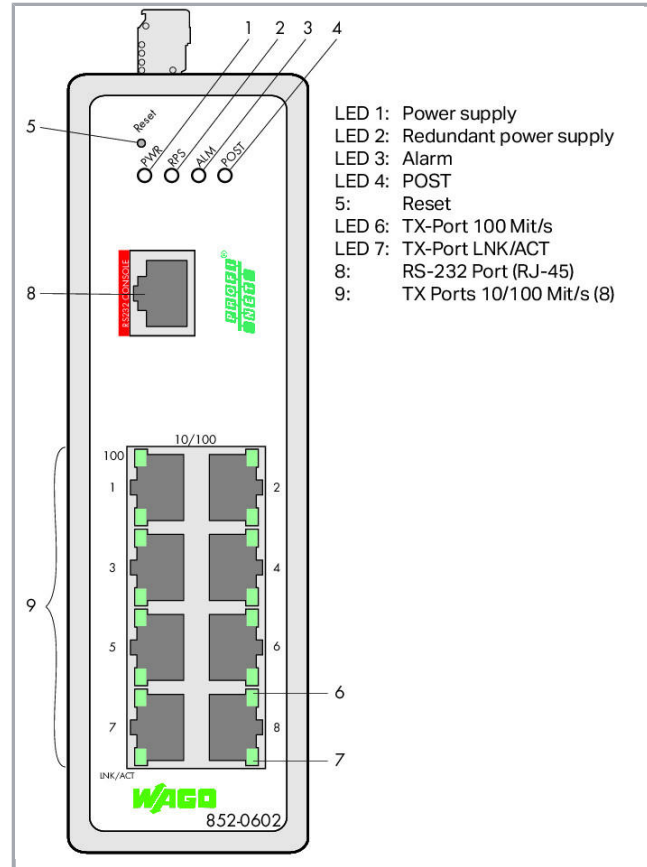


Data sheet | Item number: 852-602

Industrial-Managed-Switch; 8-port 100Base-TX; PROFINET; Extended temperature range; metallic black

[www.wago.com/852-602](http://www.wago.com/852-602)



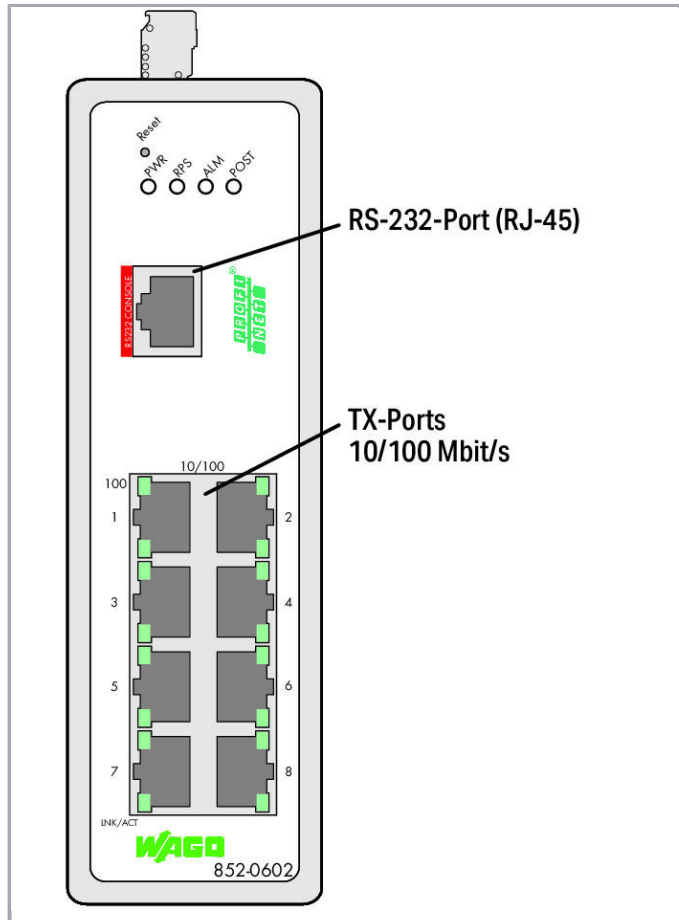
Subject to changes. Please also observe the further product documentation!

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RoHS   
Compliant

BOMcheck.net

Color: 

### Item description

The 852-602 Industrial Managed Switch is a configurable ETHERNET switch equipped with eight 10/100Base-TX copper ports. Packaged in a rugged housing, this switch offers both a redundant power supply and relay-based function monitoring.

The PROFINET certificate (conformity class B) guarantees easy integration into PROFINET automation systems using the device description file (GSD). In addition, the device supports the PROFINET Netload Class II.

The device supports flexible multi-port mirroring configuration via device description file or Web-Based Management. Function blocks allow cyclic PROFINET switch diagnostics to be efficiently implemented within the TIA Portal. An application note that outlines this process is available.

### Features:

- Web-based/SNMP management
- Redundant DC power supply

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- Power supply range: 12 ... 60 VDC
- DIP switches to set alarm functions
- Full compliance with IEEE802.3, 802.3u, 802.3x, 802.1d, 802.1w, 802.1s, 802.1Q, 802.1p standards
- Media redundancy protocol (MRP) as manager (MRM) or client (MRC), redundant ring
- Non-blocking, store-and-forward switching, rapid spanning tree protocol (RSTP)
- Autonegotiation and AUTO-MDI/MDIC (crossover)
- VLAN (802.1Q) VID
- IGMP snooping
- Port configuration, status, statistics
- Port trunking and multi-port mirroring
- SNMP v1/v2c/v3 and RMON
- Time synchronization via SNTP
- Storm control, bandwidth limitation and loop detection

## Data

### Technical Data

Switching mode	Store-and-forward; non-blocking
Number of 100Base-TX ports	8
Communication standards	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3x Flow Control IEEE 802.1d Spanning Tree Protocol (STP) IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) IEEE 802.1s Multiple Spanning Tree Protocol (MSTP) IEEE 802.1Q VLAN Tagging IEEE 802.1p Class of service IEEE 802.1ab Link Layer Discovery Protocol (LLDP) PROFINET Conformance Class B
Redundancy function	Redundant DC power supply; STP; RSTP; MSTP; Media redundancy protocol as manager or client
Configuration options	DIP switch for signal contact Web-based management Command Line Interface SNMPv1/v2c/v3
Diagnostics	Signal contact; Port status; Port statistics; Port load; Traffic monitor; SFP information; Syslog; SNMP traps; PN diagnostics (cyclic and acyclic)
MAC table (size)	16000 addresses
Jumbo frame size	10000 Byte
Supply voltage	DC 12 ... 60 V
Power consumption (max.)	12 W

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

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ESD (contact/air discharge)	8 KV / 15 KV
Baud rate	Copper cable: 10/100 Mbit/s
Transmission medium (communication/fieldbus)	Copper cable: Cat. 5e or higher, 100 m maximum cable length
VLAN	Port-based and tag-based (4k VLANs)
Indicators	Device: LED (PWR, RPS) green: Power supply (primary), redundant power supply (secondary); LED (ALM) red: Alarm or PROFINET error (with active PROFINET mode); pro 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 male connector: 231-436/001-000; included female connector (MCS Connectors): 2231-106/026-000

### Geometrical Data

Width	50 mm / 1.969 inch
Height	162 mm / 6.378 inch
Depth	122 mm / 4.803 inch

### Mechanical data

Weight	882 g
Color	metallic black

### Environmental Requirements

Surrounding air temperature (operation)	-40 ... 70 °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

Packaging type	BOX
Country of origin	TW

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GTIN	4055143907989
Customs tariff number	85176200000

## Approvals / Certificates








### UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UL Underwriters Laboratories Inc. (ORDINARY LOCATIONS)	UL 61010-2-201	E175199

## Counterpart

## Compatible products

### wiring and connectors

	<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.: 750-977/000-011</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.: 750-977/000-012</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>
	<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.: 750-978/000-011</b> Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 22; Strain relief	<a href="http://www.wago.com/750-978/000-011">www.wago.com/750-978/000-011</a>

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**Item no.: 750-978/000-012**  
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 22; Strain relief

[www.wago.com/750-978/000-012](http://www.wago.com/750-978/000-012)



**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)



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[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.: 750-979/000-012**  
Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568B; AWG 22; Strain relief

[www.wago.com/750-979/000-012](http://www.wago.com/750-979/000-012)



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[www.wago.com/750-979/000-022](http://www.wago.com/750-979/000-022)

#### power supply



**Item no.: 787-1602**  
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](http://www.wago.com/787-1602)



**Item no.: 787-1606**  
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](http://www.wago.com/787-1606)



**Item no.: 787-1622**  
Switched-mode power supply; Classic; 1-phase; 24 VDC output voltage; 5 A output current; TopBoost; DC OK contact [www.wago.com/787-1622](http://www.wago.com/787-1622)



**Item no.: 787-1623**  
Switched-mode power supply; Classic; 1-phase; 48 VDC output voltage; 2 A output current; DC OK signal [www.wago.com/787-1623](http://www.wago.com/787-1623)



**Item no.: 787-1632**  
Switched-mode power supply; Classic; 1-phase; 24 VDC output voltage; 10 A output current; TopBoost; DC OK contact [www.wago.com/787-1632](http://www.wago.com/787-1632)

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



**Item no.: 787-1633**

Switched-mode power supply; Classic; 1-phase; 48 VDC output voltage; 5 A output current; TopBoost; DC OK contact [www.wago.com/787-1633](http://www.wago.com/787-1633)



**Item no.: 787-1635**

Switched-mode power supply; Classic; 1-phase; 48 VDC output voltage; 10 A output current; TopBoost; DC OK contact [www.wago.com/787-1635](http://www.wago.com/787-1635)

**transfer module**



**Item no.: 289-195**

Interface module; RJ-45; IDC technology; Cat. 6; in mounting carrier; with shield connection [www.wago.com/289-195](http://www.wago.com/289-195)

**Downloads**

**Documentation**

**Manual**

Industrial Managed Switch 8 Ports 100BASE-TX, PROFINET; EXT	V 1.0.0 12/12/2019	pdf 15.0 MB	Download
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**System Description**

Industrial Switches – General Product Information		pdf 2.0 MB	Download
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**Runtime Software**

**Firmware**

Firmware: 852-602 Industrial-Managed-Switch; 8-port 100Base-TX; PROFINET; Extended temperature range; metallic black	02 12/12/2019	zip 9.0 MB	Download
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**Device Files**

**Device Description File**

GSD-Dateien der Version 2.x für PROFINET	2.33 09/07/2019	zip 44.1 kB	Download
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**Handling Instructions**

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