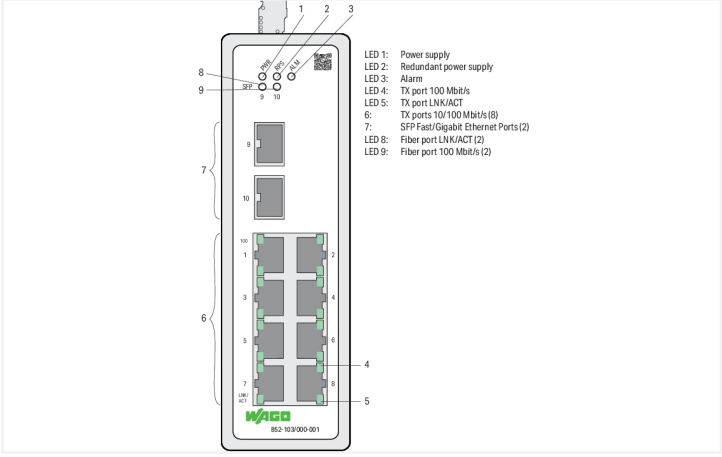
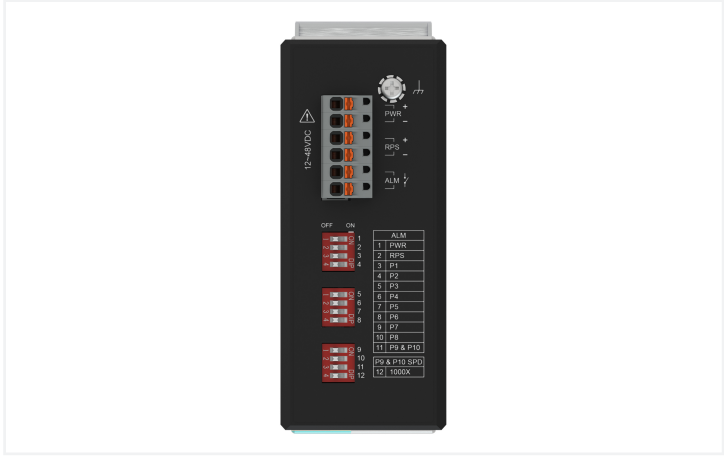






The 852-103/000-001 Switch is an industrial unmanaged Ethernet switch featuring eight RJ-45 Fast Ethernet ports (10/100BASE-T/TX) and two SFP Fast/Gigabit Ethernet ports (modules available separately; speed configuration via DIP switch). It enables straightforward setup of small to medium-sized networks. Its slim design paired with a DIN-rail adapter simplifies installation in control cabinets and offers high resistance to vibration, shock, and temperature. Additionally, automatic transmission rate detection (auto-negotiation) and automatic identification of transmit and receive lines (Auto MDI-X) enable straightforward plug-and-play operation, reducing time and costs during commissioning.

Status LEDs, a redundant power supply, and an alarm relay configurable via DIP switch enhance the switch's redundancy and diagnostic capabilities, thereby increasing operational availability.

Key Features:

- Redundant DC power supply with overload, short-circuit, and reverse polarity protection
- Large supply voltage range: 12 ... 48 V
- DIP switch for alarm configuration
- Compatible with IEEE 802.3i, 802.3u, and 802.3z standards
- Non-blocking, store-and-forward switching
- Auto-negotiation and Auto MDI/MDIX (crossover)
- Integrated address look-up table, supports up to 8,000 absolute MAC addresses
- Prioritization of Ethernet data packets (PROFINET, Ethernet/IP, GOOSE, prioritization per IEEE 802.1Q/ 802.1p)
- Forwarding of IEEE 802.1Q data packets (VLAN pass-through)

Technical data	
Switching mode	Store-and-forward; non-blocking
Number of 100 Mbps ports	8
Number of 1 Gb/s ports SFP	2
Communication standards	IEEE 802.3i 10BASE-T IEEE 802.3u 100BASE-TX/FX IEEE 802.3x Flow Control IEEE 802.3 Autonegotiation IEEE 802.1Q/ 802.1p Prioritization IEEE 802.3z 1000BASE-X/LX/SX/ZX
Redundancy function	Redundant DC power supply
Configuration options	DIP switch for alarm relay
Diagnostics	Alarm relay; NO; 1 A at 24 VDC
MAC table (size)	8000 addresses
Jumbo frame size	9216 bytes
Supply voltage	12 ... 48 VDC; (±15 %); 12 ... 48 VDC (UL)
Power consumption (max.)	6 W
Current consumption (max.)	500 mA
Transmission rate	Copper cable: 10/100 Mbit/s; Fiber optic:100/1000 Mbit/s
Transmission medium (communication/fieldbus)	Copper cable: Cat. 5e or higher, 100 m maximum cable length; Fiber optic: Transmission medium and achievable cable length depends on the SFP module
Optical fiber type	Single-mode and multi-mode
Control Elements	12 x DIP switches: alarm function for supply voltages and ports 1 ... 10; SFP speed configuration
Indicators	Device: LEDs (PWR, RPS), green: Supply voltage (primary, secondary); LED (ALM), red: Alarm; SFP ports: LED green: Connection and activity status; RJ45 ports: LED (100, LNK/ACT), green: Status 100 Mbit/s, LNK/ACT ports 1 ... 8

Connection Data	
Connection technology: communication/fieldbus	Copper cable: 8 x RJ-45; Fiber optic: 2 x SFP slots (e.g., with SFP module and LC fiber-optic connector)
Connection technology: supply	1 x Built-in male connector: 231-436/001-000; included female connector (MCS Connectors): 2231-106/102-000



Physical data	
Width	50 mm / 1.969 inches
Height	161.5 mm / 6.358 inches
Depth	119.9 mm / 4.720 inches

Mechanical data	
Weight	793 g
Housing material	Aluminum
Conformity marking	CE

Environmental requirements	
Ambient temperature (operation)	-40 ... +70 °C
Ambient temperature (storage)	-40 ... +85 °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
Fire load	0 MJ

Commercial data	
PU (SPU)	1 pcs
Packaging type	Box
Country of origin	TW
GTIN	4066966783025
Customs tariff number	85044083900

Product Classification	
UNSPSC	43222612
ETIM 9.0	EC000734
ETIM 10.0	EC000734
ECCN	NO US CLASSIFICATION

Environmental Product Compliance	
RoHS Compliance Status	Compliant, No Exemption

Approvals / Certificates

General approvals			Declarations of conformity and manufacturer's declarations		
 			Approval	Standard	Certificate Name
Approval	Standard	Certificate Name	EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
KC National Radio Research Agency	Article 58-2, Clause 3	MSIP-REM-W43-ISW852	UK-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
UL Underwriters Laboratories Inc. (ORDINARY LOCATI- ONS)	UL 508	E175199 Sec.7			



Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance
852-103/000-001

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Documentation

Manual

Product Manual Industrial-Switch; 8 Ports 100Base-TX;

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pdf 6884.72 KB

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1 Compatible Products

1.1 Optional Accessories

1.1.1 Plug

1.1.1.1 SFP module



[Item No.: 852-202](#)
SFP Module 100BASE; FX Multi-Mode
1310 nm LC; 2 km; DDM; Extreme; silver-colored