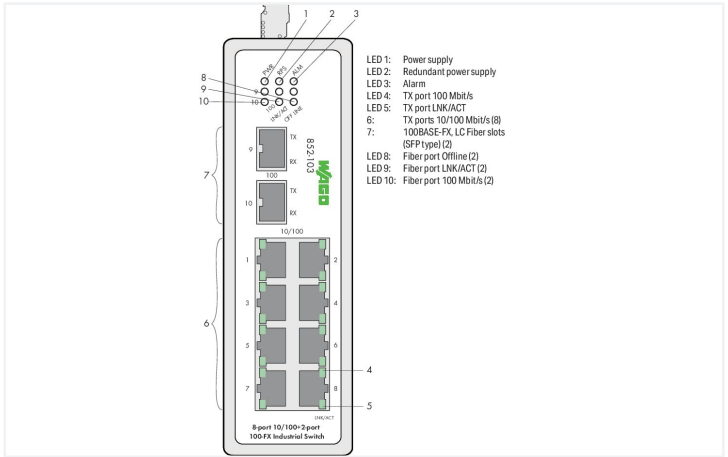


Data Sheet | Item Number: 852-103
Industrial-Switch; 8-port 100Base-TX; 2 Slots 100Base-FX; black



<https://www.wago.com/852-103>



Color: ■ black

This unmanaged industrial ETHERNET switch (852-103) has eight Fast ETHERNET ports and 2 SFP slots (100BASE modules) 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.

Status LEDs, a redundant power supply and an alarm contact (configurable via DIP switch) increase the switch's redundancy and diagnostic capabilities, providing higher operational uptime.

Features:

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

Technical data		
Switching mode	Store-and-forward; non-blocking	
Number of 100 Mbit/s ports	8	
Number of 100 Mbit/s SFP ports	2	
Communication standards	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX/FX 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 bytes	
Supply voltage	9 ... 48 VDC; Cable length: < 3 m	
Power consumption (max.)	6.08 W	
Power consumption (typ.) (24 V)	5.76 W	
ESD (contact/air discharge)	8 KV / 15 KV	
Baud rate	Copper cable: 10/100 Mbit/s; Fiber optic: 100 Mbit/s	
Transmission medium (communication/fieldbus)	Copper cable: Cat. 5 or higher, 100 m maximum cable length; Fiber optic: FX Multi-Mode, LX Single-Mode	
Optical fiber type	Single-mode and multi-mode	
Packet throughput	148800 pkt/s	
Controls	12 x DIP switch: Alarm function power supplies and ports 1 ... 10	

Technical data

Indicators	Device: LED (PWR, RPS) green: Power supply (primary), redundant power supply (secondary); LED (ALM) red: Alarm; LED (LNK/ACT, 100) green, LED (OFFLINE) red: Status fiber optic ports; 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; 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): 231-106/026-000

Physical data

Width	50 mm / 1.969 inches
Height	162 mm / 6.378 inches
Depth	120 mm / 4.724 inches

Mechanical data

Weight	922 g
Color	black
Housing material	Aluminum
Conformity marking	CE

Environmental requirements

Ambient temperature (operation)	-40 ... +70 °C (UL max. +60 °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

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
PU (SPU)	1 pcs
Packaging type	Box
Country of origin	TW
GTIN	4045454665951
Customs tariff number	85176200000



Environmental Product Compliance	
RoHS Compliance Status	Compliant,No Exemption