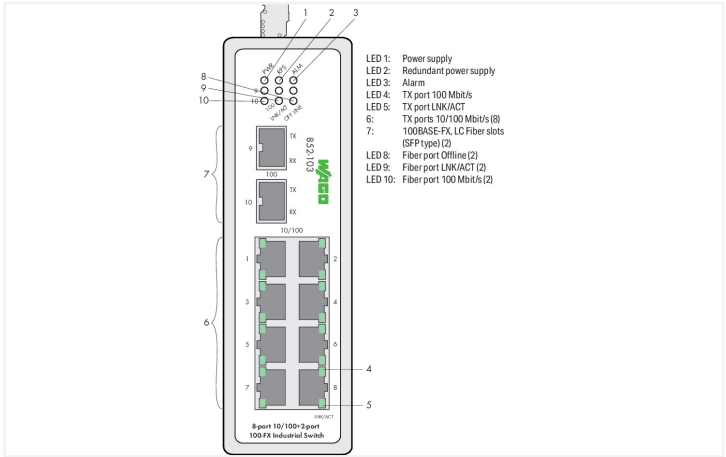




Color: ■ black

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 Mbps ports	8	
Number of 100 Mbit/s ports SFP	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	
Transmission 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	

Technical data

Packet throughput	148800 pkt/s
Control Elements	12 x DIP switches: alarm function for supply voltages and ports 1 ... 10
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)
PU (SPU)	1 pcs
Packaging type	Box
Country of origin	TW
GTIN	4045454665951
Customs tariff number	85176200000



Product Classification		
UNSPSC		43222612
eCl@ss 10.0		19-17-01-30
eCl@ss 9.0		19-17-01-06
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
EAC GZO Almaty Standart	TP TC 020/2011	EAC CoC 03083	EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
KC National Radio Research Agency	Article 58-2, Clause 3	MSIP-REM-W43-ISW852			
UL Underwriters Laboratories Inc. (ORDINARY LOCATI- ONS)	UL 508	E175199 Sec.7			

Downloads

Environmental Product Compliance		
Compliance Search		
Environmental Product Compliance 852-103		

Documentation

Manual				System Description		
Product Manual 8-Port 100 BASE-TX + 2-Slot 100 BASE-FX Industrial Switch	V 1.0.3 14.07.2020	pdf 1247.70 KB		Industrial Switches – General Product Infor- mation	pdf 1873.93 KB	
Bid Text				Instruction Leaflet		
852-103	19.02.2019	xml 5.04 KB		Gebrauchs- und Monta- geanleitung 852-101 /852-102 / 852-103 / 852-104	pdf 1649.11 KB	
852-103	09.05.2018	docx 15.03 KB				



CAD/CAE-Data	
CAD data 2D/3D Models 852-103 ↓	CAE data EPLAN Data Portal 852-103 ↓
	WSCAD Universe 852-103 ↓
	ZUKEN Portal 852-103 ↓

1 Compatible Products

1.1 Optional Accessories

1.1.1 Cables and connectors

1.1.1.1 Connector plug

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

1.1.2 Interface module

1.1.2.1 Interface module

 Item No.: 289-195 Interface module; RJ-45; IDC technology; Cat. 6; in mounting carrier; with shield connection	 Item No.: 289-175 Interface module; RJ-45; PCB terminal blocks, double-row; Cat. 5; in mounting carrier; with shield connection; with shield clamping saddle; 1,50 mm ²	 Item No.: 289-172 Interface module; RJ-45; RJ-45; Cat. 5; in mounting carrier	 Item No.: 289-196 Interface module; RJ-45; with power jumper contacts; PCB terminal blocks; Cat. 5
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1.1.3 Plug

1.1.3.1 SFP module



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



[Item No.: 852-201/107-002](#)
SFP Module 100BASE; FX Multi-Mode
1310 nm LC; 2 km; silver-colored



[Item No.: 852-201/107-030](#)
SFP Module 100BASE; LX Single-Mode
1310 nm LC; 30 km; silver-colored