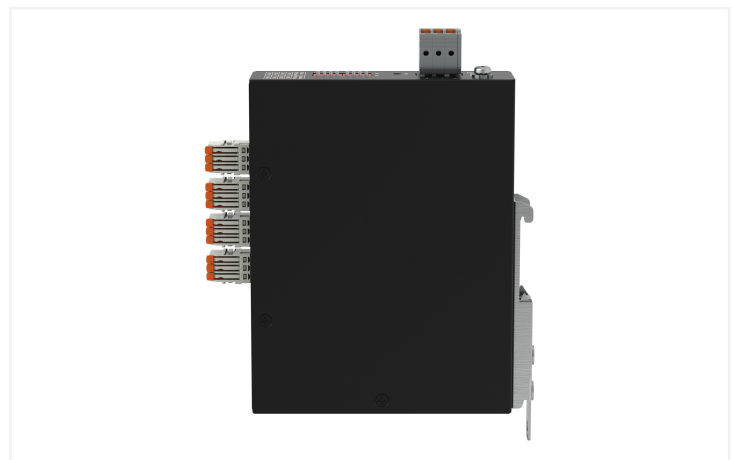


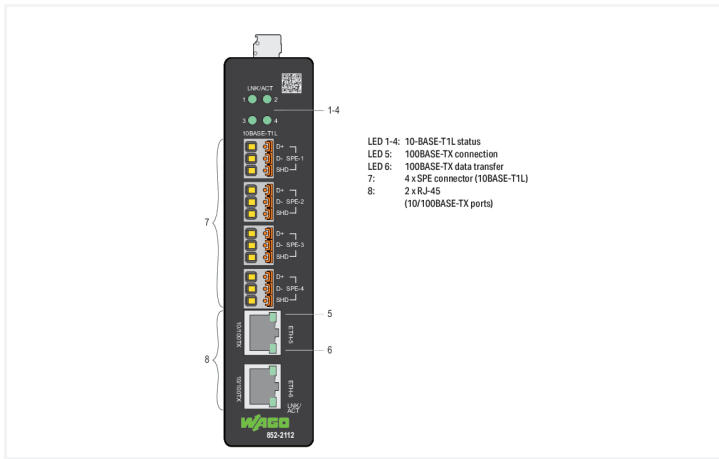
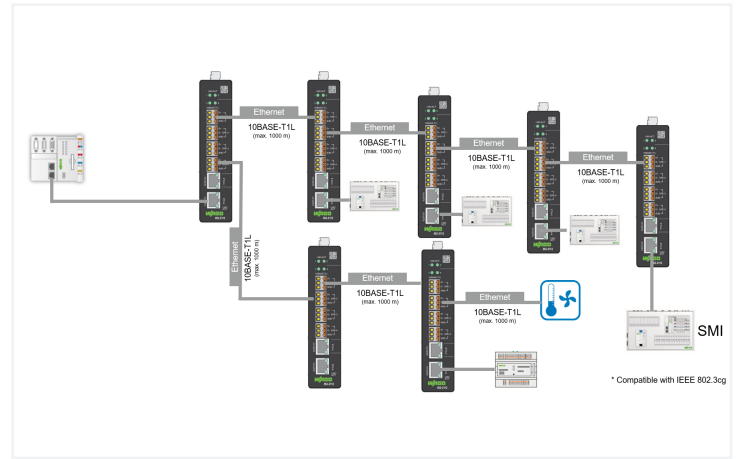
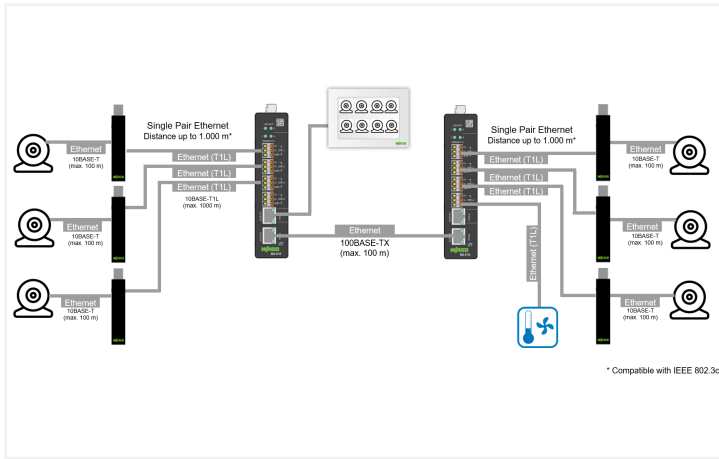
Data Sheet | Item Number: 852-2112

Industrial-ECO-Switch; Single Pair Ethernet; 4 Port 10Base-T1L; 2 Port 10/100Base-TX

<https://www.wago.com/852-2112>



- Status LEDs**
 - Main power supply LED
 - 10BASE-T1L (LNK/ACT)
 - 10/100BASE-TX (LNK/ACT)
- Single Pair Ethernet**
 - 4 x 10 Mbps (10BASE-T1L)
 - Freely selectable polarity
- Steel housing**
 - Robust DIN rail adapter
 - Protection class IP30
- Power connector**
 - Supply voltage 12...48 VDC
 - Power consumption < 5 W
- QR Code**
 - Direct access to the documentation
- RJ45 Ethernet interfaces**
 - 10 Mbps (10/100BASE-TX)
 - Plug and play (Autonegotiation)



This device is an industrial eco switch with two 10/100 Mbps RJ-45 ETHERNET ports (10/100BASE-TX) and four Single Pair Ethernet ports (10BASE-T1L). The switch enables ETHERNET communication at a bandwidth of 10 Mbit/s using shielded twisted-pair cabling over a maximum transmission distance of 1,000 m (approx. 3,280 ft). The automatic transmission rate detection (auto-negotiation) of the connected ETHERNET device enables simple plug-and-play operation. Connecting the SPE cable to the female connector with lever actuation is straightforward and time-efficient. Using Single Pair Ethernet significantly reduces the cost of integrating an Ethernet connection over long transmission distances. In particular, the use of existing cabling can significantly reduce the cost of connecting decentralized, Ethernet-capable sensors to an automation system. Another application is the networking of remote Ethernet devices using an SPE media converter (852-1705) and the 852-2112. This solution enables the substitution of DSL modems or fiber optic connections. Its compact design with a DIN-rail adapter makes installation in control cabinets easier and provides high heat, vibration and shock resistance.

Technical data	
Communication standards	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3x Flow Control IEEE 802.3 Nway autonegotiation IEEE 802.3cg 10BASE-T1L (Single Pair Ethernet)
Configuration options	DIP switch for configuring the Single Pair Ethernet port
MAC table (size)	1024 addresses
Jumbo frame size	1536 bytes
Supply voltage	12 ... 48 VDC
Power consumption (max.)	5 W
Transmission rate	10/100BASE-TX: 10/100 Mbit/s; 10BASE-T1L: 10 Mbit/s
Transmission medium (communication/fieldbus)	10/100BASE-TX: Copper cable, Cat 5 or better, 100 m maximum cable length; 10BASE-T1L: SPE (10BASE-T1L) compatible cable, 1000 m maximum cable length

Connection Data

Connection technology: communication/fieldbus	10/100BASE-TX: 2 x RJ-45; 10BASE-T1L: 4 x Built-in male connector: 231-433/001-000; included female connector (MCS Connectors): 2231-1103/327-000
Connection technology: supply	1 x Built-in male connector: 231-433/001-000; included female connector (MCS Connectors): 231-103/026-000

Physical data

Width	31 mm / 1.220 inches
Height	136 mm / 5.354 inches
Depth from upper-edge of DIN-rail	109 mm / 4.291 inches

Mechanical data

Mounting type	DIN-35 rail
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Material data

Weight	476 g
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Environmental requirements

Ambient temperature (operation)	-40 ... +70 °C
Ambient temperature (storage)	-40 ... +80 °C
Protection type	IP30
Relative humidity (without condensation)	95 %
Vibration resistance	Per IEC 60068-2-6
Shock resistance	per IEC 60068-2-27
EMC immunity to interference	Per EN IEC 61000-6-2
EMC emission of interference	Per EN IEC 61000-6-4

Commercial data

PU (SPU)	1 pcs
Packaging type	Box
Country of origin	TW
GTIN	4066966842494
Customs tariff number	85176200000

Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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Approvals / Certificates

General approvals			Declarations of conformity and manufacturer's declarations		
Approval	Standard	Certificate Name	Approval	Standard	Certificate Name
 UL Underwriters Laboratories Inc. (ORDINARY LOCATIONS)	UL 61010-2-201	E175199	EU-Declaration of Conformity	-	-
			WAGO GmbH & Co. KG		
			UK-Declaration of Conformity	-	-
			WAGO GmbH & Co. KG		

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product
Compliance 852-2112



Documentation

Manual

Product manual WAGO-
Industrial Eco Switch 4805498763 | 3 | en-US | pdf
2026-01-07 07:42 947.01 KB
09.01.2026



CAD/CAE-Data

CAD data

2D/3D Models 852-2112



1 Compatible Products

1.1 Optional Accessories

1.1.1 Female connector

1.1.1.1 Female connector/socket



Item No.: [2734-1103/327-000/333-000](#)

1-conductor female connector; lever; Push-in
CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm;
3-pole; 100% protected against mismatching;
Strain relief plate; 1,50 mm²; light gray

1.1.2 Strain relief

1.1.2.1 Strain relief plate



Item No.: [2734-533](#)

Strain relief plate; for female connectors; 9.5
mm wide; 1 part; lever; Pin spacing 3.5 mm;
light gray