



Gateway Ethernet IP / Modbus TCP



Powering Business Worldwide™

Part no. EU5C-SWD-EIP-MODTCP

Article no. 153163

Delivery programme

Product range			SmartWire-DT Gateways
Description			Integrated Ethernet switch Separate diagnostics interface
Function			For connection to the Ethernet-IP/MODBUS-TCP field bus
Baud Rates			10/100 MBit/s
Number of SmartWire-DT slaves			99

Approvals

NA Certification

Request filed for UL and CSA

General

Standards			IEC/EN 61131-2 EN 50178
Dimensions (W x H x D)		mm	35 x 90 x 124
Weight		kg	0.17
Mounting			Top-hat rail IEC/EN 60715, 35 mm
Mounting position			As required

Ambient conditions, mechanical

Protection type (IEC/EN 60529, EN50178, VBG 4)			IP20
Vibrations (IEC/EN 61131-2:2008)			
Constant amplitude 3,5 mm		Hz	5 - 8.4
Constant acceleration 1 g		Hz	8.4 - 150
Mechanical shock resistance (IEC/EN 60068-2-27) semi-sinusoidal 15 g/11 ms		Impacts	9
Drop to IEC/EN 60068-2-31	Drop height	mm	50
Free fall, packaged (IEC/EN 60068-2-32)		m	0.3

Electromagnetic compatibility (EMC)

Overvoltage category			II
Pollution degree			2
Electrostatic discharge (IEC/EN 61131-2:2008)			
Air discharge (Level 3)		kV	8
Contact discharge (Level 2)		kV	4
Electromagnetic fields (IEC/EN 61131-2:2008)			
80 - 1000 MHz		V/m	10
1.4 - 2 GHz		V/m	3
2 - 2.7 GHz		V/m	1
Radio interference suppression (SmartWire-DT)			EN 55011 Class A
Burst (IEC/EN 61131-2:2008, Level 3)			
Supply cables		kV	2
CAN/DP bus cable		kV	1
SmartWire-DT cables		kV	1
Surge (IEC/EN 61131-2:2008, Level 1)			
Supply cables/CAN/DP bus cable			Supply cables 0.5 kV, CAN/DP bus cable 1 kV
Radiated RFI (IEC/EN 61131-2:2008, Level 3)		V	10

Climatic environmental conditions

Operating ambient temperature (IEC 60068-2)		°C	- 25 - + 55
Condensation			Take appropriate measures to prevent condensation
Storage		°C	- 40 - 70
relative humidity, non-condensing (IEC/EN 60068-2-30)		%	5 - 95

Supply voltage U_{Aux}

Rated operational voltage		V	24 V DC (-15/+20%)
Residual ripple on the input voltage		%	 5
Protection against polarity reversal			Yes
Max. current	I _{max}	A	3
Short-circuit rating			no, external fuse FAZ Z3
Power loss		W	Normally 1
Potential isolation			No
Rated operating voltage of 24-V-DC slaves		V	typ. U _{Aux} - 0.2

Supply voltage U_{Pow}

Siemens MPI, (optional)			yes
Potential isolation between U _{Pow} and 15 V SmartWire-DT supply voltage			No
Repetition rate		s	1
Status indication		LED	yes

SmartWire-DT supply voltage

Short-circuit rating			Yes
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Connection supply voltages

Connection type			Push in terminals
Solid		mm ²	0.2 - 1.5
Flexible with ferrule		mm ²	0.25 - 1.5
UL/CSA solid or stranded		AWG	24 - 16

SmartWire-DT network

Station type			SmartWire-DT master
Number of SmartWire-DT slaves			99
Baud Rates		kBd	125 250
Address allocation			automatic
Status indication		LED	SmartWire-DT master LED: green Configurations LED: red
Connections			Plug, 8-pole
Plug connectors			Blade terminal SWD4-8MF2

Fieldbus interface

			Ethernet IP/MODBUS-TCP Slave
Protocol			Ethernet IP/MODBUS-TCP
Input data, max.		Byte	Ethernet-IP: 546 MODBUS-TCP: 800
Output data, max.		Byte	Ethernet-IP: 496 MODBUS-TCP: 642
Baud Rates			10/100 MBit/s
Baud rates switching			automatic
Address allocation			Dip switch/DHCP/BOOTP Selection via DIP switch
Status display interface		LED	Link status: yellow (10 MBit), green (100 MBit) flashing
Connection design for field bus			2 x RJ45 (2-channel switch)
Potential isolation			Yes