Product datasheet

Specifications

Acti9 Smartlink SI B - Modbus TCP/IP and Wireless communication module

A9XMZA08

Main

Range Of Product	Acti9
Product Name	Acti9 Smartlink
Product Or Component Type	Smart communication module
Device Short Name	Smartlink SI B Ethernet
Application Type	Basic energy metering E Improved load monitoring E, U, I, P, Pf Load alarming Load control Breaker status monitoring
Number Max Of Connected Devices	Up to 7 wired devices Up to 20 wireless devices
Group Of Channels	1 group of 7 digital channels 1 group of 1 analog channel
Maximum Supply Current	1.5 A
[Us] Rated Supply Voltage	24 V DC +/- 20 %
Connectivity To Devices	Analog input Digital input and output Pulse output meter Wireless energy sensor
Communication Service	Ethernet Modbus TCP/IP server Web server
Web Server	BMS controller compatible Embedded web page
Transmission Support Medium	Radio frequency 2.4…2.4835 GHz PowerTag 20
Web Services	Web page

Complementary

Application Specific I/O	Pulse converter Pulse totalising counter
Protection Type	Short-circuit protection for analog input Against reverse polarity for auxiliary supply Against reverse polarity for input Overvoltage at 33 V DC for digital output
Immunity To Microbreaks	10 ms
Reset	Factory reset on front face
Input/Output Type	2 inputs per analog channel 2 inputs + 1 output per digital channel
Input Type	Current for analog input, 4...20 mA Voltage for analog input, 0...10 V DC Current sink for digital input, 24 V DC +/- 20 % at 2.5 mA

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Maximum Permanent Current	0.005 A for digital input
Absolute Accuracy Error	+/- 1 % of full scale for analog input 12 bits
Electronic Filtering Time	2 ms for digital input from state 0 to state 1 2 ms for analog input from state 0 to state 1
Output Type	Logic current source: 24 V - DC - 100 mA
Maximum Voltage Drop	<1 V at state 1 digital output
Inrush Current	0.5 A for digital output 3 A for power supply
Local Signalling	Communication: 1 LED (yellow) NS (Network Status): 1 LED (green, orange and red) Communication (LK/ACT 10/100): 1 LED (green and yellow) Status: 1 LED (green, orange and red)
Mounting Position	Horizontal and vertical on DIN rail
Colour	White (RAL 9003)
Location Of Connection	Front
Connections - Terminals	Spring-loaded terminal Ti24 qty: 7 for digital input/output, ordered separately RJ45 connector qty: 1 for ETHERNET, ordered separately Plug-in connector qty: 1 for supply circuit Plug-in connector qty: 1 for communication bus Plug-in connector qty: 1 for analog input
Clamping Connection Capacity	2 x 0.25 mm² for twisted shielded pairs cable, flexible with cable end for communication bus 2 x 0.25 mm² for twisted shielded pairs cable, flexible without cable end for communication bus 2 x 0.25 mm² for twisted shielded pairs cable, rigid with cable end for communication bus 2 x 0.25 mm² for twisted shielded pairs cable, rigid without cable end for communication bus 2 x 0.25...2 x 1.5 mm² for twisted shielded pairs cable, rigid with cable end for analog input 2 x 0.25...2 x 1.5 mm² for twisted shielded pairs cable, rigid without cable end for analog input 2 x 0.25...2 x 1.5 mm² for twisted shielded pairs cable, flexible with cable end for analog input 2 x 0.25...2 x 1.5 mm² for twisted shielded pairs cable, flexible without cable end for analog input 1 x 0.5...1 x 1.5 mm², flexible with cable end for control 1 x 0.5...1 x 1.5 mm², flexible without cable end for control 1 x 0.5...1 x 1.5 mm², rigid with cable end for control 1 x 0.5...1 x 1.5 mm², rigid without cable end for control 2 x 0.2...2 x 1.5 mm², flexible with cable end for supply circuit 2 x 0.2...2 x 1.5 mm², flexible without cable end for supply circuit 2 x 0.2...2 x 1.5 mm², rigid with cable end for supply circuit 2 x 0.2...2 x 1.5 mm², rigid without cable end for supply circuit
Wire Stripping Length	Control: 10 mm Supply circuit: 7 mm Analog input: 7 mm Communication bus: 7 mm
Communication Network Type	RS485 Modbus RTU master SUB-D 9 9.6...19.2 kbauds Ethernet Modbus TCP/IP server RJ45 10/100 Mbit/s
9 Mm Pitches	0 useful
Height	22.5 mm
Width	359 mm
Depth	42 mm
Net Weight	180 g
Provided Equipment	Set of 1 connector Set of 1 bus connector Set of 1 power supply connector Set of 2 locking clips

Range Compatibility	Acti 9 iTL auxiliary Multi9 C60 Linergy Linergy FM Acti 9 iOF+SD 24 Acti 9 iACT24 Acti 9 iATL24 PowerLogic pulse output meter PowerLogic Modbus meter Acti 9 PowerTag wireless energy sensor Acti 9 RCA iC60 Acti 9 Acti9 iCT auxiliary Acti 9 Acti9 iC60 Acti 9 Acti9 iID Acti 9 Acti9 iSW-NA Acti 9 Acti9 iDPN Vigi Acti 9 Acti9 C40 Acti 9 Acti9 DT40 Acti 9 Acti9 DT60 Acti 9 Acti9 I-NA Acti 9 Acti9 ITG40 Acti 9 Acti9 iDPN Acti 9 Acti9 Reflex iC60 Ti24 connector
Commissioning Interface	ECOREACH Web page
Compatibility Code	Acti 9 Smartlink IP

Environment

Ip Degree Of Protection	IP20
Pollution Degree	3
Electromagnetic Compatibility	Resistance to electrostatic discharge (air discharge), 8 kV, conforming to IEC 61000-4-2 Resistance to electrostatic discharge (contact discharge), 4 kV, conforming to IEC 61000-4-2 Resistance to radiated electromagnetic fields (80 MHz...3 GHz), 10 V/m, conforming to IEC 61000-4-3 Power supply: resistance to fast transient (5...100 kHz), 2 kV, conforming to IEC 61000-4-4 Input/output: resistance to fast transient, 1 kV, conforming to IEC 61000-4-4 Communication bus: resistance to fast transient, 1 kV, conforming to IEC 61000-4-4 Conducted EMC (0.15...80 MHz), 10 V, conforming to IEC 61000-4-6 Immunity to magnetic fields at network frequency, 30 A/m, conforming to IEC 61000-4-8 Radiated emission (30...1000 MHz), class A, conforming to IEC 61131-3 Ed.3 Conducted emission (0.15...30 MHz), class A, conforming to IEC 61131-2
Environmental Characteristic	Corrosive 3C2 conforming to IEC 60721-3-3 Salt mist 2 conforming to IEC 60068-2-52
Vibration Resistance	1 gn, amplitude = 3.5 mm (f = 5…300 Hz)10 cycles conforming to IEC 60068-2-6
Shock Resistance	15 gn for 11 ms conforming to IEC 60068-2-27
Fire Resistance	Other parts: 650 °C (30 s) conforming to IEC 60695-2-10 On connection terminals: 960 °C (30 s) conforming to IEC 60695-2-10
Tropicalisation	2
Relative Humidity	93 % at 40 °C
Operating Altitude	0...2000 m
Ambient Air Temperature For Operation	-25…60 °C
Ambient Air Temperature For Storage	-40…80 °C

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	3.400 cm

Package 1 Width	6.300 cm
Package 1 Length	36.700 cm
Package 1 Weight	304.000 g
Unit Type Of Package 2	S03
Number Of Units In Package 2	32
Package 2 Height	30.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	10.215 kg

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

Transparency RoHS/REACh

Well-being performance

Mercury Free

Rohs Exemption Information	Yes

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information