A9XMSB11

Communication module, EcoStruxure I/O Smart Link, Modbus, RS485





Main

Range of product	EcoStruxure
Product name	EcoStruxure I/O Smart Link
Product or component type	Smart communication module
Device short name	I/O Smart Link
Application type	Load control Breaker status monitoring Basic energy metering E
Number max of connected devices	Up to 11 wired devices
Group of channels	1 group of 11 digital channels
Maximum supply current	1.5 A
[Us] rated supply voltage	24 V DC +/- 20 %
Connectivity to devices	Digital input and output Pulse output meter
Communication service	Modbus server for RS485
Web server	BMS controller compatible
Web services	Web page

Complementary

Application specific I/O	Pulse totalising counter Pulse converter
Protection type	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 By booted push-button By address encoder By plug in, plug out the power supply
Input/output type	2 inputs + 1 output per digital channel
Input type	Current sink for digital input, 24 V DC +/- 20 % at 2.5 mA
Maximum permanent current	5 mA for digital input
Electronic filtering time	2 ms for digital 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 7 A for power supply
Local signalling	Communication: 1 LED (yellow) Status: 1 LED (green, orange and red)
Type of setting	Modbus address 0199 for address encoders Reset for address encoders Reset for plug in, plug out the auxiliary supply
Mounting position	Horizontal and vertical on DIN rail
Colour	White (RAL 9003)
Location of connection	Front
Connections - terminals	Spring-loaded terminal Ti24 qty: 11 for digital input/output, ordered separately Plug-in connector qty: 1 for supply circuit Plug-in connector qty: 1 for communication bus

Clamping connection capacity 2 x 0.22 x 1.5 mm² for twisted shielded pairs cable, flexible with cable en communication bus 2 x 0.22 x 1.5 mm² for twisted shielded pairs cable, flexible without cable for communication bus 2 x 0.22 x 1.5 mm² for twisted shielded pairs cable, rigid with cable end for communication bus 2 x 0.22 x 1.5 mm² for twisted shielded pairs cable, rigid with cable end for communication bus 1 x 0.21 x 1.5 mm², flexible with cable end for control 1 x 0.21 x 1.5 mm², flexible with cable end for control 1 x 0.21 x 1.5 mm², rigid with cable end for control 1 x 0.21 x 1.5 mm², rigid with cable end for control 2 x 0.22 x 1.5 mm², rigid with cable end for supply circuit 2 x 0.22 x 1.5 mm², rigid with cable end for supply circuit 2 x 0.22 x 1.5 mm², rigid with cable end for supply circuit 2 x 0.22 x 1.5 mm², rigid with cable end for supply circuit 2 x 0.22 x 1.5 mm², rigid with cable end for supply circuit 2 x 0.22 x 1.5 mm², rigid with cable end for supply circuit 2 x 0.22 x 1.5 mm², rigid with cable end for supply circuit 2 x 0.22 x 1.5 mm², rigid with cable end for supply circuit 2 x 0.22 x 1.5 mm², rigid with cable end for supply circuit 2 x 0.22 x 1.5 mm², rigid with cable end for supply circuit 2 x 0.22 x 1.5 mm², rigid without cable end for supply circuit 2 x 0.22 x 1.5 mm², rigid without cable end for supply circuit 2 x 0.22 x 1.5 mm², rigid without cable end for supply circuit 2 x 0.22 x 1.5 mm², rigid without cable end for supply circuit 2 x 0.22 x 1.5 mm², rigid without cable end for supply circuit 2 x 0.22 x 1.5 mm², rigid without cable end for supply circuit 2 x 0.22 x 1.5 mm², rigid without cable end for supply circuit 2 x 0.22 x 1.5 mm², rigid without cable end for supply circuit 2 x 0.22 x 1.5 mm², rigid without cable end for supply circuit 2 x 0.22 x 1.5 mm², rigid without cable end for supply circuit 3 x 0.22 x 1.5 mm², rigid without cable end for supply circuit 3 x 0.22 x 1.5 mm², rigid witho	
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Acti 9 Acti9 iDPN Vigi Acti 9 Acti9 C40	
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Acti 9 Acti9 DT60	
Acti 9 Acti 9 I-NA	
Acti 9 Acti9 ITG40 Acti 9 Acti9 iDPN	
Acti 9 Acti9 Reflex iC60 Ti24 connector	
Commissioning interface EcoStruxure Power Commission	
Web page	
Market segment Buildings Small commercial	
Compatibility code Acti 9 Smartlink	

Environment

IP degree of protection	IP20
IK degree of protection	IK06 conforming to IEC 62262
Pollution degree	3
Electromagnetic compatibility	Resistance to electrostatic discharge (air discharge), class B, 8 kV, conforming to IEC 61000-4-2
	Resistance to electrostatic discharge (contact discharge), class B, 4 kV, conforming to IEC 61000-4-2
	Resistance to radiated electromagnetic fields (80 MHz3 GHz), class A, 10 V/m, conforming to IEC 61000-4-3
	Power supply: resistance to radiated electromagnetic fields (1.46 GHz), class A, 3 V/m, conforming to IEC 61000-4-3
	Power supply: resistance to fast transient (5100 kHz), class B, 2 kV, conforming to IEC 61000-4-4
	Input/Output: resistance to fast transient, class B, 1 kV, conforming to IEC 61000-4-4
	Communication bus: resistance to fast transient (0.1580 MHz), class B, 1 kV, conforming to IEC 61000-4-4
	Conducted EMC (0.1580 MHz), class A, 3 V, conforming to IEC 61000-4-6 Conducted emission (0.1530 MHz), class B, conforming to IEC 61326-1 Conducted emission (0.1530 MHz), class B, conforming to CISPR 11
	Radiated emission (306000 MHz), class B, conforming to IEC 61326-1 Radiated emission (306000 MHz), class B, conforming to CISPR 11
	Power supply: surges (DM coupling 42 Ohm), class B, 1 kV, conforming to IEC 61000-4-5
	Power supply: surges (CM coupling 42 Ohm), class B, 2 kV, conforming to IEC 61000-4-5
	Communication bus: surges (CM coupling 2 Ohm), class B, 1 kV, conforming to IEC 61000-4-5
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 = 5300 Hz)10 cycles conforming to EN/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	093 % at 40 °C
Operating altitude	02000 m
Ambient air temperature for operation	-2560 °C
Ambient air temperature for storage	-4085 °C
Standards	IEC 61010-2-201 IEC 61010-1

Packing Units

Offer Sustainability

Sustainable offer status	Green Premium product
REACh Regulation	☑ REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China RoHS Regulation	☑ China RoHS Declaration
RoHS exemption information	₽¥Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	☑ End Of Life Information

Contractual warranty

	Warranty	18 months
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