Product datasheet Characteristics

A9XMSB11

Acti9 Smartlink - Modbus RS485 slave - smart communication I/O module





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Main	
Range of product	Acti 9
Product name	Acti 9 Smartlink
Product or component type	Smart communication module
Device short name	Smartlink Modbus
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 slave for RS485
Web server	BMS controller compatible
Web services	Web page

Complementary

Complementary		7
Application specific I/O	Pulse totalising counter Pulse converter	-
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 + 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 3 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 0.25 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 1 x 0.51 x 1.5 mm², flexible with cable end for control 1 x 0.51 x 1.5 mm², flexible without cable end for control 1 x 0.51 x 1.5 mm², rigid with cable end for control 1 x 0.51 x 1.5 mm², rigid without cable end for control 2 x 0.22 x 1.5 mm², flexible with cable end for supply circuit 2 x 0.22 x 1.5 mm², flexible without 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
Wire stripping length	Control: 10 mm Supply circuit: 7 mm Communication bus: 7 mm
Communication network type	RS485 Modbus RTU slave SUB-D 9 9.619.2 kbauds
9 mm pitches	0 useful
Height	22.5 mm
Width	359 mm
Depth	42 mm
Product weight	195 g
Provided equipment	Set of 1 bus connector Set of 1 power supply connector Set of 2 locking clips
Range compatibility	iTL auxiliary Linergy FM iOF+SD 24 iACT24 iATL24 pulse output meter RCA iC60 Acti 9 iCT auxiliary Acti 9 iC60 Acti 9 iID Acti 9 iSW-NA Acti 9 iBPN Vigi Acti 9 iDPN Vigi Acti 9 C40 Multi 9 C60 Acti 9 DT40 Acti 9 DT40 Acti 9 ITG40 Acti 9 ITG40 Acti 9 ITG40 Acti 9 ITG40 Acti 9 iDPN Acti 9 iDPN Acti 9 Reflex iC60 Ti24 connector
Commissioning interface	ECOREACH Web page
Market segment	Residential Small commercial
Compatibility code	Acti 9 Smartlink

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 MHz3 GHz), 10 V/m, conforming to IEC 61000-4-3 Power supply: resistance to fast transient (5100 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 61000-4-6 Immunity to magnetic fields at network frequency, 30 A/m, conforming to IEC 61000-4-8	
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	93 % at 40 °C	
Operating altitude	02000 m	
Ambient air temperature for operation	-2560 °C	
Ambient air temperature for storage	-4080 °C	

Offer Sustainability

Sustainable offer status	Green Premium product	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration	
Mercury free	Yes	
RoHS exemption information	Yes	
China RoHS Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information	
Environmental Disclosure	Product Environmental Profile	
Circularity Profile	End of Life Information	

Contractual warranty

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Warranty	18 months		