



### 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<br>Breaker status monitoring<br>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<br>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<br>Pulse converter   |
| Protection type           | Against reverse polarity for auxiliary supply<br>Against reverse polarity for input<br>Overvoltage at 33 V DC for digital output  |
| Immunity to microbreaks   | 10 ms   |
| Reset                     | Factory reset on front face<br>By booted push-button<br>By address encoder<br>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<br>7 A for power supply  |
| Local signalling          | Communication: 1 LED (yellow)<br>Status: 1 LED (green, orange and red)  |
| Type of setting           | Modbus address 01...99 for address encoders<br>Reset for address encoders<br>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<br>Plug-in connector qty: 1 for supply circuit<br>Plug-in connector qty: 1 for communication bus |

|                              |  |
|------------------------------|--|
| Clamping connection capacity | 2 x 0.2...2 x 1.5 mm <sup>2</sup> for twisted shielded pairs cable, flexible with cable end for communication bus<br>2 x 0.2...2 x 1.5 mm <sup>2</sup> for twisted shielded pairs cable, flexible without cable end for communication bus<br>2 x 0.2...2 x 1.5 mm <sup>2</sup> for twisted shielded pairs cable, rigid with cable end for communication bus<br>2 x 0.2...2 x 1.5 mm <sup>2</sup> for twisted shielded pairs cable, rigid without cable end for communication bus<br>1 x 0.2...1 x 1.5 mm <sup>2</sup> , flexible with cable end for control<br>1 x 0.2...1 x 1.5 mm <sup>2</sup> , flexible without cable end for control<br>1 x 0.2...1 x 1.5 mm <sup>2</sup> , rigid with cable end for control<br>1 x 0.2...1 x 1.5 mm <sup>2</sup> , rigid without cable end for control<br>2 x 0.2...2 x 1.5 mm <sup>2</sup> , flexible with cable end for supply circuit<br>2 x 0.2...2 x 1.5 mm <sup>2</sup> , flexible without cable end for supply circuit<br>2 x 0.2...2 x 1.5 mm <sup>2</sup> , rigid with cable end for supply circuit<br>2 x 0.2...2 x 1.5 mm <sup>2</sup> , rigid without cable end for supply circuit |
| Wire stripping length        | Control: 10 mm<br>Supply circuit: 7 mm<br>Communication bus: 7 mm  |
| Communication network type   | RS485 Modbus RTU client/server SUB-D 9 4800 bps, 9600 bps, 19200 bps, 38.4 Kbps  |
| 9 mm pitches                 | 0 useful   |
| Height                       | 22.5 mm  |
| Width                        | 359 mm   |
| Depth                        | 42 mm  |
| Net weight                   | 188 g  |
| Provided equipment           | Set of 1 bus connector<br>Set of 1 power supply connector<br>Set of 2 locking clips  |
| Range compatibility          | Acti 9 iTL auxiliary<br>Linergy Linergy FM<br>Acti 9 iOF+SD 24<br>Acti 9 iACT24<br>Acti 9 iATL24<br>PowerLogic pulse output meter<br>Acti 9 RCA iC60<br>Acti 9 Acti9 iCT auxiliary<br>Acti 9 Acti9 iC60<br>Acti 9 Acti9 iLD<br>Acti 9 Acti9 iSW-NA<br>Acti 9 Acti9 iDPN Vig<br>Acti 9 Acti9 C40<br>Multi9 Multi9 C60<br>Acti 9 Acti9 DT40<br>Acti 9 Acti9 DT60<br>Acti 9 Acti9 I-NA<br>Acti 9 Acti9 ITG40<br>Acti 9 Acti9 iDPN<br>Acti 9 Acti9 Reflex iC60 Ti24 connector  |
| Commissioning interface      | EcoStruxure Power Commission<br>Web page   |
| Market segment               | Buildings<br>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<br>Resistance to electrostatic discharge (contact discharge), class B, 4 kV, conforming to IEC 61000-4-2<br>Resistance to radiated electromagnetic fields (80 MHz...3 GHz), class A, 10 V/m, conforming to IEC 61000-4-3<br>Power supply: resistance to radiated electromagnetic fields (1.4...6 GHz), class A, 3 V/m, conforming to IEC 61000-4-3<br>Power supply: resistance to fast transient (5...100 kHz), class B, 2 kV, conforming to IEC 61000-4-4<br>Input/Output: resistance to fast transient, class B, 1 kV, conforming to IEC 61000-4-4<br>Communication bus: resistance to fast transient (0.15...80 MHz), class B, 1 kV, conforming to IEC 61000-4-4<br>Conducted EMC (0.15...80 MHz), class A, 3 V, conforming to IEC 61000-4-6<br>Conducted emission (0.15...30 MHz), class B, conforming to IEC 61326-1<br>Conducted emission (0.15...30 MHz), class B, conforming to CISPR 11<br>Radiated emission (30...6000 MHz), class B, conforming to IEC 61326-1<br>Radiated emission (30...6000 MHz), class B, conforming to CISPR 11<br>Power supply: surges (DM coupling 42 Ohm), class B, 1 kV, conforming to IEC 61000-4-5<br>Power supply: surges (CM coupling 42 Ohm), class B, 2 kV, conforming to IEC 61000-4-5<br>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<br>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 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<br>On connection terminals: 960 °C ( 30 s ) conforming to IEC 60695-2-10   |
| Tropicalisation                       | 2  |
| Relative humidity                     | 0...93 % at 40 °C  |
| Operating altitude                    | 0...2000 m   |
| Ambient air temperature for operation | -25...60 °C  |
| Ambient air temperature for storage   | -40...85 °C  |
| Standards                             | IEC 61010-2-201<br>IEC 61010-1   |

## Packing Units

|                              |          |
|------------------------------|----------|
| Unit Type of Package 1       | PCE      |
| Number of Units in Package 1 | 1        |
| Package 1 Height             | 3.4 cm   |
| Package 1 Width              | 6.4 cm   |
| Package 1 Length             | 36.4 cm  |
| Package 1 Weight             | 271.0 g  |
| Unit Type of Package 2       | S03      |
| Number of Units in Package 2 | 32       |
| Package 2 Height             | 30.0 cm  |
| Package 2 Width              | 30.0 cm  |
| Package 2 Length             | 40.0 cm  |
| Package 2 Weight             | 9.063 kg |

Offer Sustainability

|                            |  |
|----------------------------|--|
| Sustainable offer status   | Green Premium product                                      |
| REACH Regulation           | <a href="#">REACH Declaration</a>                          |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope) |
| China RoHS Regulation      | <a href="#">China RoHS Declaration</a>                     |
| RoHS exemption information | <a href="#">Yes</a>  |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>              |
| Circularity Profile        | <a href="#">End Of Life Information</a>                    |

Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|