

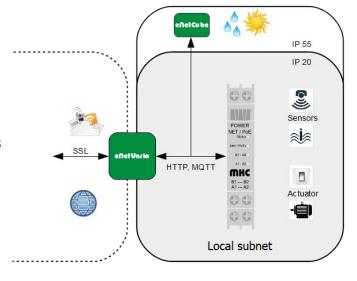
The eNetIO-4-ahhh provides you with one output in the form of a relay normally open contact, one digital input and twelve analogue current inputs.

It works both stand-alone and integrated in control systems in industry or in the home user area (e.g. openHAB, **Node-Red**).

The device is an independent part of a whole series, for the connection of different sensors and actuators for industrial applications and the private environment.

The network interface is used for communication (HTTP, JSON REST-API, MQTT) as well as for power supply of the device via PoE.

The integrated HTTP server enables convenient setting of all system-relevant parameters.



All software interfaces are based on open protocols. Thus, all devices can be operated directly in your network environment without registration, app or cloud connection. This offers the highest possible protection for your data.



You can find more information about our products and services at www.enetio.com



eNetIO-4-ahhh

Datasheet

Case

 Robust and compact enclosure for top-hat rail mounting according to EN 60715

Galvanic isolation

 The device is completely galvanic decoupled from the power supply and from the sensors and actuators connected to the screw terminals.

Communication interface

- RJ45, LAN Ethernet 10/100MBit
- M2M Communication
- MQTT Client
- HTTP Homepage

Power supply

- Network, PoE
- Alternatively 18 48V DC (protected against polarity reversal)

1x digital output

- Configurable as mono/bistable switch
- LED status indicator

1x digital input

Sampling interval: ca. 2ms

Weighted arithmetic mean as input filter

LED status indicator

12x analogue current input

Sampling interval: approx. 25ms

16 bit ΔΣ converter
Resolution: 0.763μA
Accuracy: 0.04% FSR (Full Scale Range: 25mA)
Reverse polarity protected

Technical specifications

Ambient temperature [°C] - Operation min: 0 max: 50 - Storage min: -40 max: 80 Air humidity [% r.H.] min: 0 max: 90 Power supply - Network PoE IEEE802.3af, Class 0 - Voltage [V] min: 18 max: 48 - power consumption [W] typ: 0,5 max: 3,84 Digital outputs Quantity 1 Contacts A1 − A2 Implementation Relay, normally open Rated voltage max: 440V~ Breaking capacity max: 1500VA Rated current max: 6A Galvanic isolation ≥ 3KV Wire cross-section [AWG] min: 24 max: 16 Contact ratings [cycles] (VDE0660, VDE0631, ULS08) "3x10 ⁶ with 6A (resistive) & 30V= 3x10 ⁶ with 0,3A (L/R=40ms) & 50V= Digital inputs Quantity 1 Contacts B1 − B2 V _{IH} min: 12V AC/DC max: 230V AC/DC Input resistance ≥ 50KΩ Galvanic isolation ≥ 3KV Wire cross-section [AWG] min: 24 Max: 16 Analogue inputs Quantity 1 Contacts B1 − B2 V _{IH} min: 12V AC/DC max: 230V AC/DC Input resistance ≥ 50KΩ Galvanic isolation ≥ 3KV Wire cross-section [AWG] min: 24 Max: 16 Analogue inputs Quantity 12 Contacts A3 − A4, B3 − B4, C3 − C4, D3 − D4, A5 − A6, B5 − B6, C5 − C6, D5 − D6, A7 − A8, B7 − B8, C7 − C8, D7 − D8 Measuring range min: 0mA max: 24mA Load ≥ 50KΩ Galvanic isolation ≥ 3KV				
- Operation min: 0 max: 50 - Storage min: -40 max: 80 Air humidity [% r.H.] min: 0 max: 90 Power supply Network PoE IEEE802.3af, Class 0 - Voltage [V] min: 18 max: 48 - power consumption [W] typ: 0,5 max: 3,84 Digital outputs 1 Contacts A1 − A2 Implementation Relay, normally open Rated voltage max: 250V~ Switching voltage max: 440V~ Breaking capacity max: 1500VA Rated current max: 6A Galvanic isolation ≥ 3KV min: 24 max: 16 Contact ratings [cycles] (VDE0660, VDE0631, UL508) -5x10 ⁵ with 6A & 250V~ Digital inputs Quantity 1 Contacts B1 − B2 V _{IH} min: 12V AC/DC max: 230V AC/DC Input resistance ≥ 50KΩ Galvanic isolation ≥ 3KV Wire cross-section [AWG] min: 24 Max: 16 Analogue inputs 1 Contacts B1 − B2 V _{IH} min: 12V AC/DC max: 230V AC/DC Input resistance ≥ 50KΩ Galvanic isolation ≥ 3KV Wire cross-section [AWG] min: 24 Max: 16 Analogue inputs 12 Contacts A3 − A4, B3 − B4, C3 − C4, D3 − D4, A5 − A6, B5 − B6, C5 − C6, D5 − D6, A7 − A8, B7 − B8, C7 − C8, D7 − D8 Measuring range min: 0mA max: 24mA Load ≥ 50KΩ Galvanic isolation ≥ 3KV	Dimensions LxWxH [mm]	90 x 70 x 60		
- Storage min: -40 max: 80 Air humidity [% r.H.] min: 0 max: 90 Power supply min: 0 max: 90 - Network PoE IEEE802.3af, Class 0 max: 48 - Voltage [V] min: 18 max: 48 - power consumption [W] typ: 0,5 max: 3,84 Digital outputs Digital outputs Quantity 1 Contacts A1 - A2 Implementation Relay, normally open Rated voltage max: 250V~ Switching voltage max: 440V~ Breaking capacity max: 1500VA Rated current max: 1500VA Rated current max: 6A Galvanic isolation ≥ 3KV Wire cross-section [AWG] min: 24 max: 16 Contact ratings [cycles] (VDE0660, VDE0631, UL508) - 1x10 ⁵ with 6A & 250V~ Outacts B1 - B2 V _{IH} min: 12V AC/DC max: 230V AC/DC V _{IH} min: 12V AC/DC max: 230V AC/DC Contacts B1 - B2 Max: 6V AC/DC Min:	·	I	I	
Air humidity [% r.H.] min: 0 max: 90 Power supply - Network PoE	-	min: 0	max: 50	
Power supply IEEE802.3af, Class 0 - Voltage [V] min: 18 max: 48 - power consumption [W] typ: 0,5 max: 3,84 Digital outputs Quantity 1 Contacts A1 – A2 Implementation Relay, normally open Rated voltage max: 250V~ Switching voltage max: 440V~ Breaking capacity max: 1500VA Rated current max: 6A Galvanic isolation ≥ 3KV Wire cross-section [AWG] min: 24 max: 16 Contact ratings [cycles] (VDE0660, VDE0631, UL508) - 1×10 ⁵ with 6A & 250V~ Sylob with 0,3A (L/R=40ms) & 50V= - 5×10 ⁵ with 0,3A (L/R=40ms) & 50V= Digital inputs Quantity 1 Contacts B1 – B2 V _{IH} min: 12V AC/DC max: 230V AC/DC V _{IL} min: 12V AC/DC max: 6V AC/DC Input resistance ≥ 50KΩ SAV Galvanic isolation ≥ 3KV Max: 16 Analogue inputs A3 – A4, B3 – B4, C3 – C4, D3 – D4, A7 – A8, B7 – B8, C7 – C8, D7 – D8, A7 – A8	- Storage	min: -40	max: 80	
- Network PoE	Air humidity [% r.H.]	min: 0	max: 90	
- Voltage [V] min: 18 max: 48 - power consumption [W] typ: 0,5 max: 3,84 Digital outputs Quantity 1 Contacts A1 - A2 Implementation Relay, normally open Rated voltage max: 250V~ Switching voltage max: 440V~ Breaking capacity max: 1500VA Rated current max: 6A Galvanic isolation ≥ 3KV Wire cross-section [AWG] min: 24 max: 16 Contact ratings [cycles] (VDE0660, VDE0631, UL508) - 3x10 ⁶ with 6A (resistive) & 30V= -3x10 ⁶ with 0,3A (L/R=40ms) & 50V= Digital inputs Quantity 1 Contacts B1 - B2 V _{IH} min: 12V AC/DC max: 230V AC/DC Input resistance ≥ 50KΩ Galvanic isolation ≥ 3KV Wire cross-section [AWG] min: 24 Max: 16 Analogue inputs Quantity 1 Contacts B1 - B2 V _{IH} min: 12V AC/DC max: 230V AC/DC Input resistance ≥ 50KΩ Galvanic isolation ≥ 3KV Wire cross-section [AWG] min: 24 Max: 16 Analogue inputs Quantity 12 Contacts A3 - A4, B3 - B4, C3 - C4, D3 - D4, A5 - A6, B5 - B6, C5 - C6, D5 - D6, A7 - A8, B7 - B8, C7 - C8, D7 - D8 Measuring range min: 0mA max: 24mA Load ≥ 50KΩ Galvanic isolation ≥ 3KV	Power supply			
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Digital outputs Quantity 1 Contacts A1 – A2 Implementation Relay, normally open Rated voltage max: 250V~ Switching voltage max: 440V~ Breaking capacity max: 1500VA Rated current max: 6A Galvanic isolation ≥ 3KV Wire cross-section [AWG] min: 24 max: 16 Contact ratings [cycles] - 1x10⁵ with 6A & 250V~ (VDE0660, VDE0631, UL508) - 5x10⁵ with 6A (resistive) & 30V = Digital inputs - 3x10⁶ with 0,3A (L/R=40ms) & 50V = Quantity 1 Contacts B1 – B2 V _{IH} min: 12V AC/DC max: 230V AC/DC V _{IL} max: 6V AC/DC Input resistance ≥ 50KΩ - 3KV Wire cross-section [AWG] min: 24 Max: 16 Analogue inputs - 2 - 3KV Quantity 12 - 2 Contacts A3 – A4, B3 – B4, C3 – C4, D3 – D4, A5 – A6, B5 – B6, C5 – C6, D5 – D6, A7 – A8, B7 – B8, C7 – C8, D7 – D8 Measuring range min: 0mA m	- Voltage [V]	min: 18	max: 48	
Quantity 1 Contacts A1 – A2 Implementation Relay, normally open Rated voltage max: 250V~ Switching voltage max: 440V~ Breaking capacity max: 1500VA Rated current max: 6A Galvanic isolation ≥ 3KV Wire cross-section [AWG] min: 24 max: 16 Contact ratings [cycles] (VDE0660, VDE0631, UL508) - 1x10⁵ with 6A & 250V~ - 5x10⁵ with 6A (resistive) & 30V= Digital inputs Quantity 1 Tontacts SoV= Quantity 1 Tontacts Tontacts B1 – B2 V _{IH} min: 12V AC/DC max: 230V AC/DC max: 6V AC/DC Input resistance ≥ 50KΩ Tontacts Galvanic isolation ≥ 3KV Max: 16 Analogue inputs Quantity 12 Tontacts A3 – A4, B3 – B4, C3 – C4, D3 – D4, A5 – A6, B5 – B6, C5 – C6, D5 – D6, A7 – A8, B7 – B8, C7 – C8, D7 – D8 Measuring range min: 0mA max: 24mA Load ≥ 50KΩ SKV Tontacts SKV Tontacts SKV Tontac	- power consumption [W]	typ: 0,5	max: 3,84	
Contacts A1 – A2 Implementation Relay, normally open Rated voltage max: 250V~ Switching voltage max: 440V~ Breaking capacity max: 1500VA Rated current max: 6A Galvanic isolation ≥ 3KV Wire cross-section [AWG] min: 24 max: 16 Contact ratings [cycles] (VDE0660, VDE0631, UL508) - 1x105 with 6A & 250V~ - 5x105 with 6A (resistive) & 30V= - 1x105 with 0A, 3A (L/R=40ms) & 50V= Digital inputs 0 min: 24 max: 230V AC/DC VIH min: 12V AC/DC max: 230V AC/DC VIL max: 6V AC/DC max: 6V AC/DC Input resistance ≥ 50KΩ SAV Galvanic isolation ≥ 3KV Max: 16 Analogue inputs Max: 16 Quantity 12 Contacts A3 – A4, B3 – B4, C3 – C4, D3 – D4, A5 – A6, B5 – B6, C5 – C6, D5 – D6, A7 – A8, B7 – B8, C7 – C8, D7 – D8 Measuring range min: 0mA max: 24mA Load ≥ 50KΩ Galvanic isolation ≥ 3KV	Digital outputs			
Implementation Relay, normally open Rated voltage max: 250V~ Switching voltage max: 440V~ Breaking capacity max: 1500VA Rated current max: 6A Galvanic isolation ≥ 3KV Wire cross-section [AWG] min: 24 max: 16 Contact ratings [cycles] (VDE0660, VDE0631, UL508) - 1x10 5 with 6A & 250V~ - 5x10 5 with 6A (resistive) & 30V= 1 (VDE0660, VDE0631, UL508) 1 - 5x10 5 with 6A (resistive) & 30V= 2 (VDE0660, VDE0631, UL508) 1 - 5x10 5 with 6A (resistive) & 30V= 3 (VDE0660, VDE0631, UL508) 1 - 5x10 5 with 6A (resistive) & 30V= 3 (VDE0660, VDE0631, UL508) 1 - 5x10 5 with 6A (resistive) & 30V= 3 (VDE0660, VDE0631, UL508) 1 - 5x10 5 with 6A (resistive) & 30V= 3 (VDE0660, VDE0631, UL508) 1 - 1x10 5 with 6A & 250V~ Will (VDE0660, VDE0631, UL508) 1 - 1x10 5 with 6A (resistive) & 30V= 3 (VDE0660, VDE0631, UL508) 1 - 1x10 5 with 6A (resistive) & 30V= 4 (VDE0660, VDE0631, UL508) 1 - 1x10 5 with 6A (resistive) & 30V= 4 (VDE0660, VDE0631, UL508) 1 - 1x10 5 with 6A (resist	Quantity	1		
Rated voltage $ \begin{array}{c} \text{Rated voltage} \\ \text{Switching voltage} \\ \text{Breaking capacity} \\ \text{Rated current} \\ \text{Rated current} \\ \text{Galvanic isolation} \\ \text{Wire cross-section [AWG]} \\ \text{Wire cross-section [AWG]} \\ \text{VDE0660, VDE0631, UL508} \\ \text{Digital inputs} \\ \text{Quantity} \\ \text{I} \\ \text{Contacts} \\ \text{B1} - \text{B2} \\ \text{V}_{\text{IH}} \\ \text{VIII} \\ \text{IIII} \\ \text{IIIII} \\ \text{IIII} \\ \text{IIII} \\ \text{IIII} \\ \text{IIIII} \\ \text{IIIII} \\ \text{IIIIII} \\ \text{IIIII} \\ \text{IIIIII} \\ \text{IIIIII} \\ \text{IIIIII} \\ \text{IIIIIIII} \\ \text{IIIIIIIIIII} \\ IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII$	Contacts	A1 – A2		
Switching voltage $I_{\rm max}: 440V \sim I_{\rm max}: 1500VA$ Rated current $I_{\rm max}: 6A$ Galvanic isolation $I_{\rm max}: 6A$ Wire cross-section [AWG] $I_{\rm max}: 24$ $I_{\rm max}: 16$ Contact ratings [cycles] $I_{\rm max}: 6A$ UL508) $I_{\rm max}: 6A$ Digital inputs Quantity $I_{\rm max}: 6A$ $I_{\rm max}: 16$ Contacts $I_{\rm max}: 16$ Contacts $I_{\rm max}: 6A$ Digital inputs Quantity $I_{\rm max}: 6A$ $I_{\rm max}: 16$ Contacts $I_{\rm max}: 16$ Contacts $I_{\rm max}: 16$ Contacts $I_{\rm max}: 10^5$ with $I_{\rm max}: 16$ Contacts $I_{\rm max}: 10^5$ with	Implementation	Relay, normally open		
Breaking capacity Rated current Galvanic isolation ≥ 3KV Wire cross-section [AWG] Contact ratings [cycles] (VDE0660, VDE0631, UL508) Digital inputs Quantity 1 Contacts B1 − B2 V _{IH} min: 12V AC/DC Input resistance Galvanic isolation ≥ 3KV Max: 16 - 1x10 ⁵ with 6A & 250V~ - 5x10 ⁵ with 6A (resistive) & 30V= - 3x10 ⁶ with 0,3A (L/R=40ms) & 50V= Digital inputs Quantity 1 Contacts B1 − B2 V _{IH} min: 12V AC/DC max: 230V AC/DC Input resistance ≥ 50KΩ Galvanic isolation ≥ 3KV Wire cross-section [AWG] min: 24 Max: 16 Analogue inputs Quantity 12 Contacts A3 − A4, B3 − B4, C3 − C4, D3 − D4, A5 − A6, B5 − B6, C5 − C6, D5 − D6, A7 − A8, B7 − B8, C7 − C8, D7 − D8 Measuring range min: 0mA max: 24mA Load ≥ 50KΩ Galvanic isolation ≥ 3KV	Rated voltage		max: 250V~	
Rated currentmax: 6AGalvanic isolation≥ 3KVWire cross-section [AWG]min: 24max: 16Contact ratings [cycles] (VDE0660, VDE0631, UL508)- 1x10⁵ with 6A & 250V~ - 5x10⁵ with 6A (resistive) & 30V= - 3x10⁶ with 0,3A (L/R=40ms) & 50V=Digital inputs1Quantity1ContactsB1 − B2 V_{1H} min: 12V AC/DCmax: 230V AC/DC V_{1L} max: 6V AC/DCInput resistance≥ 50KΩGalvanic isolation≥ 3KVWire cross-section [AWG]min: 24Max: 16Analogue inputsQuantity12ContactsA3 − A4, B3 − B4, C3 − C4, D3 − D4, A5 − A6, B5 − B6, C5 − C6, D5 − D6, A7 − A8, B7 − B8, C7 − C8, D7 − D8Measuring rangemin: 0mAmax: 24mALoad≥ 50KΩGalvanic isolation≥ 3KV	Switching voltage		max: 440V~	
Galvanic isolation≥ 3KVWire cross-section [AWG]min: 24max: 16Contact ratings [cycles] (VDE0660, VDE0631, UL508)- 1x105 with 6A & 250V~ - 5x105 with 6A (resistive) & 30V= - 3x106 with 0,3A (L/R=40ms) & 50V=Digital inputs1Quantity1ContactsB1 − B2 V_{1H} min: 12V AC/DCmax: 230V AC/DCInput resistance≥ 50KΩGalvanic isolation≥ 3KVWire cross-section [AWG]min: 24Max: 16Analogue inputsQuantity12ContactsA3 − A4, B3 − B4, C3 − C4, D3 − D4, A5 − A6, B5 − B6, C5 − C6, D5 − D6, A7 − A8, B7 − B8, C7 − C8, D7 − D8Measuring rangemin: 0mAmax: 24mALoad≥ 50KΩGalvanic isolation≥ 3KV	Breaking capacity		max: 1500VA	
Wire cross-section [AWG] min: 24 max: 16 Contact ratings [cycles] (VDE0660, VDE0631, UL508) - 1x10 ⁵ with 6A & 250V~ Digital inputs - 5x10 ⁵ with 0,3A (L/R=40ms) & 50V= Digital inputs 1 Quantity 1 Contacts B1 − B2 V _{IH} min: 12V AC/DC max: 230V AC/DC V _{IL} max: 6V AC/DC Input resistance ≥ 50KΩ Galvanic isolation ≥ 3KV Wire cross-section [AWG] min: 24 Max: 16 Analogue inputs Quantity 12 Contacts A3 − A4, B3 − B4, C3 − C4, D3 − D4, A5 − A6, B5 − B6, C5 − C6, D5 − D6, A7 − A8, B7 − B8, C7 − C8, D7 − D8 Measuring range min: 0mA max: 24mA Load ≥ 50KΩ Galvanic isolation ≥ 3KV	Rated current		max: 6A	
Contact ratings [cycles] (VDE0660, VDE0631, UL508) $-1x10^5$ with 6A & 250V~ $-5x10^5$ with 6A (resistive) & 30V= $-3x10^6$ with 0,3A (L/R=40ms) & 50V= Digital inputs Quantity 1 Contacts $B1 - B2$ V_{1H} min: $12V$ AC/DC max: $230V$ AC/DC V_{1L} max: $6V$ AC/DC Input resistance ≥ $50KΩ$ Galvanic isolation ≥ $3KV$ Wire cross-section [AWG] min: 24 Max: 16 Analogue inputs Quantity 12 Contacts $A3 - A4$, $B3 - B4$, $C3 - C4$, $D3 - D4$, $A5 - A6$, $B5 - B6$, $C5 - C6$, $D5 - D6$, $A7 - A8$, $B7 - B8$, $C7 - C8$, $D7 - D8$ Measuring range min: $0mA$ max: $24mA$ Load ≥ $50KΩ$ Galvanic isolation ≥ $3KV$	Galvanic isolation	≥ 3KV		
(VDE0660, VDE0631, UL508) $-5x10^5$ with 6A (resistive) & 30V= $-3x10^6$ with 0,3A (L/R=40ms) & 50V= Digital inputs 1 Quantity 1 Contacts B1 – B2 V_{IH} min: 12V AC/DC max: 230V AC/DC V_{IL} max: 6V AC/DC Input resistance ≥ 50 KΩ 4 Galvanic isolation ≥ 3 KV 8 Wire cross-section [AWG] min: 24 Max: 16 Analogue inputs 12 Contacts A3 – A4, B3 – B4, C3 – C4, D3 – D4, A5 – A6, B5 – B6, C5 – C6, D5 – D6, A7 – A8, B7 – B8, C7 – C8, D7 – D8 Measuring range min: 0mA max: 24mA Load ≥ 50 KΩ Galvanic isolation ≥ 3 KV	Wire cross-section [AWG]	min: 24	max: 16	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	(VDE0660, VDE0631,	- 5x10 ⁵ with 6A (resistive) & 30V=		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Digital inputs			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Quantity	1		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Contacts	B1 – B2		
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	V _{IH}	min: 12V AC/DC	max: 230V AC/DC	
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	V _{IL}		max: 6V AC/DC	
Wire cross-section [AWG] min: 24 Max: 16 Analogue inputs Quantity 12 Contacts A3 – A4, B3 – B4, C3 – C4, D3 – D4, A5 – A6, B5 – B6, C5 – C6, D5 – D6, A7 – A8, B7 – B8, C7 – C8, D7 – D8 Measuring range min: 0mA max: 24mA Load ≥ 50KΩ Galvanic isolation ≥ 3KV	Input resistance	≥ 50KΩ		
Analogue inputs Quantity 12 Contacts A3 – A4, B3 – B4, C3 – C4, D3 – D4, A5 – A6, B5 – B6, C5 – C6, D5 – D6, A7 – A8, B7 – B8, C7 – C8, D7 – D8 Measuring range min: 0mA max: 24mA Load ≥ 50KΩ Galvanic isolation ≥ 3KV	Galvanic isolation	≥ 3KV		
Quantity 12 Contacts A3 – A4, B3 – B4, C3 – C4, D3 – D4, A5 – A6, B5 – B6, C5 – C6, D5 – D6, A7 – A8, B7 – B8, C7 – C8, D7 – D8 Measuring range min: 0mA max: 24mA Load ≥ 50KΩ Galvanic isolation ≥ 3KV	Wire cross-section [AWG]	min: 24	Max: 16	
A3 – A4, B3 – B4, C3 – C4, D3 – D4, A5 – A6, B5 – B6, C5 – C6, D5 – D6, A7 – A8, B7 – B8, C7 – C8, D7 – D8 Measuring range min: 0mA max: 24mA Load ≥ 50KΩ Galvanic isolation ≥ 3KV	Analogue inputs			
$A5 - A6, B5 - B6, C5 - C6, D5 - D6, A7 - A8, B7 - B8, C7 - C8, D7 - D8$ $Measuring range \qquad min: 0mA \qquad max: 24mA$ $Load \qquad \geq 50K\Omega$ $Galvanic isolation \qquad \geq 3KV$	Quantity	12		
Load ≥ 50 KΩ Galvanic isolation ≥ 3 KV	Contacts	A5 – A6, B5 – B6, C5 – C6, D5 – D6,		
Galvanic isolation ≥ 3KV	Measuring range	min: 0mA	max: 24mA	
	Load	≥ 50KΩ		
Wire cross-section [AWG] min: 24 may: 16	Galvanic isolation	≥ 3KV		
Time Cross section [Atto] Illinia 21 Illian. 10	Wire cross-section [AWG]	min: 24	max: 16	



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eNetIO-4-ahhh

Datasheet

SYSTEMS DEVICES PROTOTYPES



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HARDWARE SOFTWARE DEVELOPMENT



ASSEMBLY SMD / THT AOI

COMPETENCE

QUALITY

SERVICE



CONTROLLER LINUX NODE RED



EMBEDDED MODULES SENSORS REMOTE IO REST / MQTT POE



Further information on our products and services can be found at www.mkc-qmbh.com

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