



Cloud connected I/O controller



#### Features

- Cloud I/O and control
- Fully encrypted cloud interface
- Configuration free setup
- JSON based command interface
- Serial data router
- Industrial temp. Range -40 .. +85 °C
- 16 digital / analog inputs / outputs
- Configurable inputs (voltage, timing, event)
- Power fail safe counters / elapsed time meters
- User configurable logic engine
- h2n App for tablet / smartphone

#### General Data

|                       |                                       |
|-----------------------|---------------------------------------|
| Power Consumption     | 500 mW typ (no digital output active) |
| Temperature Operation | - 40 .. 85 °C                         |
| Dimension(W x D x H)  | 53,6 x60 x 89 mm                      |
| Mechanics             | DIN Rail Mount 3 TE Weight 143        |
| Screw Connector       | 0,14 .. 1,5 mm2 solid / stranded      |
| ESD                   | IEC 61000-4-2 up to 8 kV              |

#### Power Supply

|                        |            |
|------------------------|------------|
| Operating Voltage (VS) | 11 .. 32 V |
|------------------------|------------|

#### Digital Output (IEC61131-2)

|                                 |                                      |
|---------------------------------|--------------------------------------|
| Digital Output Voltage High     | (VS-0,1 V) .. VS                     |
| Power Switch On Resistance      | 100mΩ max at 25 °C                   |
| Digital Output Current          | 0,7 A                                |
| Output Short Circuit Current    | 0,7 A cont. 1,4 A peak at 25 °C      |
| Output Current Off              | +/- 5 μA                             |
| Turn on Voltage Slope           | 3 V / μs typical<br>4 V / μs typical |
| Digital Output Thermal Shutdown | 135 °C                               |

#### Analog / Digital Input (IEC61131-2)

|                            |                           |
|----------------------------|---------------------------|
| Analog Input Voltage Range | 0 .. 10 V                 |
| Analog Input Resistance    | R1 ≥ 10 KΩ                |
| Digital Input Threshold    | Configurable (0 .. 10 V)  |
| Digital Input Range        | - 0.5 .. 36 V             |
| Digital Input Current      | Programmable (0 / 1,5 mA) |
| Analog Resolution          | 16 Bits                   |

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|                                |                          |
|--------------------------------|--------------------------|
| Timing Resolution              | 1 $\mu$ s                |
| <b>RS 232</b>                  |                          |
| Signals                        | TX, RX, RTS, CTS         |
| Baudrate                       | 115 kBaud max            |
| Max Input Voltage              | -25 .. 25 V              |
| Min Output Voltage             | -5 .. 5V                 |
| <b>RS 485</b>                  |                          |
| Signals                        | A+, B-; half duplex      |
| Baudrate                       | 250 kBaud max            |
| Max Differential Input Voltage | -12 .. 12 V              |
| <b>Ethernet</b>                |                          |
| Speed                          | 10/100 BaseT             |
| Connector                      | Industrial RJ45 shielded |

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