

Product datasheet

Specifications



AS-Interface - modular - standard - 4 I - 4 O transistor 0.5 A - IP20

ASI20MT4I4OS

⚠ Discontinued on: 27 Oct 2017

⚠ Discontinued

Main

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| Range of product | Advantys |
| product or component type | Modular interface |
| Addressing | Standard |
| Number of addresses | 0...31 |
| Discrete input number | 4 |
| Discrete output number | 4 transistor (0.5 A) |
| Supply | Sensor: via AS-Interface line Actuator: via external PELV supply |
| Actuator sensor interface profile [AS-i] | S7.0.F.E |

Complementary

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| Range compatibility | AS-Interface cabling system |
| AS-Interface compatibility | V2.1 |
| [Us] rated supply voltage | 26.5...31.6 V DC for AS-Interface line |
| Maximum sensor supply current | 200 mA |
| Current consumption | <= 50 mA on inputs/outputs on and sensor not energised for AS-Interface line 15 mA on no load for AS-Interface line |
| Input compatibility | 2 or 3-wire PNP conforming to IEC 61131-2 Type 2 |
| Voltage state 1 guaranteed | > 11 V for sensor side |
| Current state 1 guaranteed | >= 6 mA (sensor side) |
| Voltage state 0 guaranteed | < 5 V for sensor side |
| Current state 0 guaranteed | <= 2 mA (sensor side) |
| Discrete output voltage | 19.2...30 V DC conforming to IEC 60947-5-1 |
| Drop-out voltage | 0.3 V at Ith (actuator side) |
| Thermal current per channel | 0.5 A (actuator side) |
| Thermal current per common | 2 A (actuator side) |
| [Ie] rated operational current | 0.5 A, operating rate <6 cyc/mn DC-12 conforming to IEC 60947-5-1 (actuator side) 0.5 A, operating rate <6 cyc/mn DC-13 conforming to IEC 60947-5-1 (actuator side) |
| Minimum output current | 0.5 mA |
| Maximum leakage current | 0.5 mA at 30 V (actuator side) |
| Overcurrent protection | Built-in, electronic (actuator side) |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

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| Switching time | 1 ms at OFF to ON for actuator side 1 ms at ON to OFF for actuator side |
| Output fallback position | State 0 if watchdog tripped |
| Parameter bits | Not used |
| Overvoltage category | II conforming to EN/IEC 60664-1 |
| Electrical connection | Removable terminal block for actuator side Removable terminal block for AS-Interface line Removable terminal block for sensor side |
| Fixing mode | By 2 screws diameter: 3 mm on panel Clip-on on 35 mm symmetrical DIN rail, operating position: horizontal |
| Housing material | Polycarbonate |
| Flame retardance | V0 conforming to UL 94 |
| Local signalling | 1 LED (green) for AS-Interface power on 1 LED (green) for auxiliary supply on 1 LED (red) for no data exchange on AS-Interface (on steady), peripheral fault (flashing) 8 LEDs (yellow) for input/output status |
| net weight | 0.09 kg |

Environment

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|---------------------------------------|---|
| Product certifications | UL AS-Interface No 52301 CSA |
| Ambient air temperature for operation | -20...60 °C |
| Ambient air temperature for storage | -40...85 °C |
| IP degree of protection | IP20 conforming to EN/IEC 60529 |
| Shock resistance | 15 gn for 11 ms conforming to EN/IEC 60068-2-27 |
| Vibration resistance | +/-1 mm (f = 2...13.2 Hz) 1 gn (f = 13.2...100 Hz) |
| Resistance to electrostatic discharge | 6 kV conforming to EN/IEC 61000-4-2 |
| Resistance to radiated fields | 10 V/m conforming to EN/IEC 61000-4-3 |
| Resistance to fast transients | 2 kV conforming to EN/IEC 61000-4-4 |
| Dielectric test voltage | 0.5 kV between AS-Interface line and transistor outputs conforming to EN/IEC 60364-4-41 |
| Pollution degree | 2 conforming to EN/IEC 60664-1 |

Contractual warranty

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| Warranty | 18 months |
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