

Product datasheet

Specifications



AS-Interface - modular - standard - 4 I isolated - 3 O transistor 0.5 A - IP20

ASI20MT4I4OSA

⚠ Discontinued on: 5 Dec 2020

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EAN Code: 3389110117752

Main

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

Complementary

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	<= 20 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

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

Product certifications	CSA UL AS-Interface No 52401
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

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.1 cm
Package 1 Width	8.3 cm
Package 1 Length	9.6 cm
Package 1 Weight	100.0 g
Unit Type of Package 2	S03
Number of Units in Package 2	60
Package 2 Height	30.0 cm
Package 2 Width	30.0 cm

Package 2 Length	40.0 cm
Package 2 Weight	6.713 kg

Contractual warranty

Warranty (in months)	18
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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

Use Longer

Lifetime extension	
Repair	No