

Product datasheet

Specifications



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

ASI20MT4I4OSA

! Discontinued on: 05 December 2020

! End-of-service on: 07 December 2020

! Discontinued

ASI20MT4I4OSA has not been replaced. Please contact your customer care centre for more information.

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)
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
Product 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 Weight	100 g
Package 1 Height	3.1 cm
Package 1 width	8.3 cm
Package 1 Length	9.6 cm
Unit Type of Package 2	S03
Number of Units in Package 2	60
Package 2 Weight	6.713 kg

Package 2 Height	30 cm
Package 2 width	30 cm
Package 2 Length	40 cm

Contractual warranty

Warranty	18 months
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