

Main

Commercial Status	Commercialised
Range of product	Advantys
Product or component type	Modular interface
Addressing	Standard
Number of addresses	<= 31
Discrete input number	4 isolated
Discrete output number	4 0.5 A transistor
Supply	Via external PELV supply for sensor Via external PELV supply for actuator
AS-i profile	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	15 mA on no load for AS-Interface line <= 20 mA on inputs/outputs on and sensor not energised for AS-Interface line
Input compatibility	2 or 3-wire PNP conforming to IEC 61131-2 Type 2
Voltage state 1 guaranteed	> 11 V (sensor side)
Current state 1 guaranteed	> 6 mA (sensor side)
Voltage state 0 guaranteed	< 5 V (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-13 conforming to IEC 60947-5-1 (actuator side) 0.5 A, operating rate = 6 cyc/mn DC-12 conforming to IEC 60947-5-1 (actuator side)
Minimum output current	0.5 mA
Leakage current	<= 0.5 mA at 30 V (actuator side)
Overcurrent protection	Built-in, electronic (actuator side)
Switching time	1 ms for ON to OFF (actuator side) 1 ms for OFF to ON (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 (sensor side) Removable terminal block (AS-Interface line) Removable terminal block (actuator side)
Fixing mode	Clip-on on 35 mm symmetrical DIN rail, operating position: horizontal By 2 screws, Ø 3 mm on panel
Housing material	Polycarbonate
Flame retardance	V0 conforming to UL 94

Local signalling	8 LEDs yellow, function: input/output status 1 LED red, function: no data exchange on AS-Interface (on steady), peripheral fault (flashing) 1 LED green, function: auxiliary supply on 1 LED green, function: AS-Interface power on
Product weight	0.09 kg

Environment

Product certifications	AS-Interface No 52401 CSA UL
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 gn (f = 13.2...100 Hz) +/-1 mm (f = 2...13.2 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

Period	18 months
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