

# ASI67FFP43E

AS-Interface - direct IDC connection - V2.1 -  
extended A/B - 4 I - 3 O - IP67



## Main

Range of product	Advantys
Product or component type	Direct connection interface
Range compatibility	AS-Interface cabling system
AS-i version	V2.1
Addressing	Extended A/B
Enclosure type	Flat
Width	60 mm
Number of addresses	<= 62
Number of inputs	4
Number of outputs	3

## Complementary

Height	151 mm for connection base ASI67FFB03
Depth	30.5 mm for connection base ASI67FFB03
[Us] rated supply voltage	26.5...31.6 V for AS-Interface line
Reverse polarity protection	Integrated
Current consumption	<= 48 mA AS-Interface line without sensor supply
AS-i profile	7A70
Output fallback position	OFF in the absence of communication
Parameter bits	Not used
Electrical connection	4 female connectors M12 standard for sensor 3 female connectors M12 standard for actuator 1 jack connector 1 IDC for auxiliary supply 1 IDC for AS-Interface line
Supply	Via AS-Interface line for sensor side By external supply for actuator side
Input compatibility	2 or 3-wire PNP conforming to EN/IEC 61131-2 type 2
Sensor power supply	18...30 V conforming to EN/IEC 60947-5-1
Supply current for sensors	<= 200 mA at < 40 °C, protection type: overload and short-circuit protection <= 150 mA at 40...70 °C, protection type: overload and short-circuit protection
Voltage state1 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)
Input current	8 mA
Output type	Solid state (PNP transistor)
Output voltage	21.6...27.2 V
Drop-out voltage	<= 1 V at In
Thermal current per channel	4 A at < 40 °C (actuator side) 2 A at 40...70 °C (actuator side)
Thermal current per common	2 A (actuator side)
Leakage current	<= 0.012 mA
Output overload protection	Thermal integrated
Output short-circuit protection	Thermal integrated
Nominal output current	2 A DC-13 2 A DC-12
Switching time	< 20 ms for ON to OFF (actuator side) < 20 ms for OFF to ON (actuator side)

Installation category	II conforming to IEC 60664
Surge withstand	2 kV at 12 Ohm (common mode) conforming to EN/IEC 61000-4-5 1 kV at 2 Ohm (differential mode) conforming to EN/IEC 61000-4-5
Fixing mode	By 2 or 3 screws M4
Tightening torque	0.6 N.m
Material	Stainless steel
Housing material	PBT 30 % GF Valox 553
Local signalling	7 LEDs yellow, function: input/output status 1 LED red, function: fault 1 LED green, function: auxiliary supply ON (AUX PWR) 1 LED green, function: AS-Interface power ON (ASI PWR)
Product weight	0.16 kg

## Environment

Product certifications	AS-Interface No 55301 CSA UL
Ambient air temperature for operation	-25...70 °C conforming to EN/IEC 60529
Ambient air temperature for storage	-40...85 °C
IP degree of protection	IP67 conforming to IEC 60529 IP54 for use as tap-off or at line end conforming to IEC 60529
Shock resistance	30 gn for 11 ms conforming to IEC 60068-2-27
Vibration resistance	5 gn (f = 36...150 Hz) conforming to EN/IEC 60068-2-6 0.7 gn (f = 13.2...100 Hz) conforming to GL +/-1 mm (f = 2...36 Hz) conforming to EN/IEC 60068-2-6 +/-1 mm (f = 2...13.2 Hz) conforming to GL
Dielectric test voltage	0.5 kV between inputs and outputs for 1 minute conforming to EN/IEC 60664-1 0.5 kV between inputs and auxiliary supply for 1 minute conforming to EN/IEC 60664-1 0.5 kV between auxiliary supply and AS-Interface line for 1 minute conforming to EN/IEC 60664-1 2 kV between outputs and AS-Interface line for 1 minute conforming to EN/IEC 60664-1
Resistance to electrostatic discharge	8 kV conforming to EN/IEC 61000-4-2 level 3
Resistance to radiated fields	10 V/m conforming to EN/IEC 61000-4-3 level 3
Resistance to conducted disturbances, induced by radio frequency fields	3 V conforming to EN/IEC 61000-4-6
Resistance to fast transients	2 kV conforming to EN/IEC 60100-4-4 level 3
Pollution degree	3 conforming to EN/IEC 60604-4-1
Fire resistance	At 750 °C, extinction time: < 30 s conforming to IEC 60695-2-11