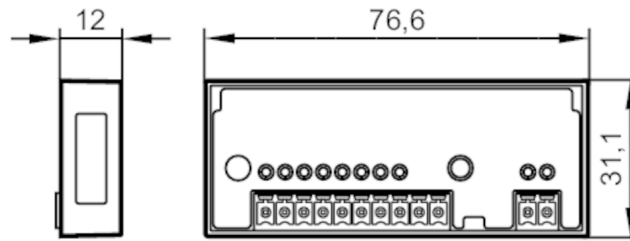




AS-Interface PCB module

PCB 4DI 4DO T C A/B



Application

Design	Only for operation with AS-i masters with the profile M4
Application	For integration of mechanical switches into AS-i networks

Electrical data

Operating voltage	[V]	18...31.6 DC
Max. current consumption from AS-i	[mA]	180; (without sensors: < 30 mA; inputs and outputs active: < 180 mA)
Protection class		III
Max. current load total	[A]	0.15; (total current for all inputs and outputs supplied from AS-i: 150 mA)
Integrated watchdog		yes

Inputs / outputs

Number of inputs and outputs	Number of digital inputs: 4; Number of digital outputs: 4
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Inputs

Number of digital inputs		4
Input circuit of digital inputs		PNP
Sensor supply of the inputs		AS-i
Voltage supply	[V]	18...30; (DC)
Max. total current rating of inputs	[mA]	150
Input current High	[mA]	6...10
Input current low	[mA]	0...2
Switching level high	[V]	> 11
Digital inputs protected against short circuits		yes

Outputs

Electrical design	PNP
Number of digital outputs	4
Circuit	PNP
Voltage range DC [V]	18...30; (DC)
Max. current load per output [mA]	100; (utilization category DC-13 (control of electromagnets): 2,5 W (IEC 60947-5-1))
Max. current load outputs total [A]	0.15
Short-circuit proof	yes
Electrically separated	yes



AS-Interface PCB module

PCB 4DI 4DO T C A/B

Operating conditions		
Ambient temperature	[°C]	-25...55
Protection		IP 20
Tests / approvals		
EMC	EN 50295	
MTTF	[years]	220
AS-i classification		
AS-i version		3.0
Extended addressing mode		yes
AS-i master profile		M4
AS-i profile		S-7.A.7
AS-i I/O configuration	[hex]	7
AS-i ID code	[hex]	A.7
AS-i certificate		102301
Mechanical data		
Weight	[g]	68
Housing		rectangular
Type of mounting		Installation in a surface-mounted housing
Dimensions	[mm]	31.1 x 76.6 x 12
Material		housing: PC potted
Displays / operating elements		
Display	Power	LED, green
	errors	LED, red
	Function	LED, yellow
Remarks		
Remarks	A watchdog function switches the outputs off if there is no communication on the AS-i line.	
	Install the unit so that exposed parts cannot be touched.	
	Installation in a surface-mounted housing with the dimensions of 68 x 136 x 53 mm (LxWxH), e.g. Schneider Electric Harmony XALD03, XALD04	
	Do not connect any of the following points to an external potential:	
	0-, I+, I1, I2, I3, I4	
	The connections are electrically connected with the AS-i cable.	
	Can be used up to a height of 2000 metres above sea level	
Pack quantity		1 pcs.



AS-Interface PCB module

PCB 4DI 4DO T C A/B

Electrical connection

screw terminals:

I1	Switching input sensor 1
I2	Switching input sensor 2
I3	Switching input sensor 3
I4	Switching input sensor 4
O1	Switching output actuator 1
O2	Switching output actuator 2
O3	Switching output actuator 3
O4	Switching output actuator 4
0-	sensor- and actuator supply 0 V
I+	sensor- and actuator supply 24 V
AS-i - (FLT)	AS-i -
AS-i + (PWR)	AS-i +