

AS-i Safety Input Modules, IP20, for optoelectronic protective devices or floating contacts



ASIM-1SI-C ASIM-1SI-S

The AS-i Safety Input Module has 2 / 1 safety inputs with 2 standard semiconductor outputs. With the help of the AS-i Safety Slave it is possible to supply applications up to PLe (ASIM-1SI-C, ASIM-1SI-S).

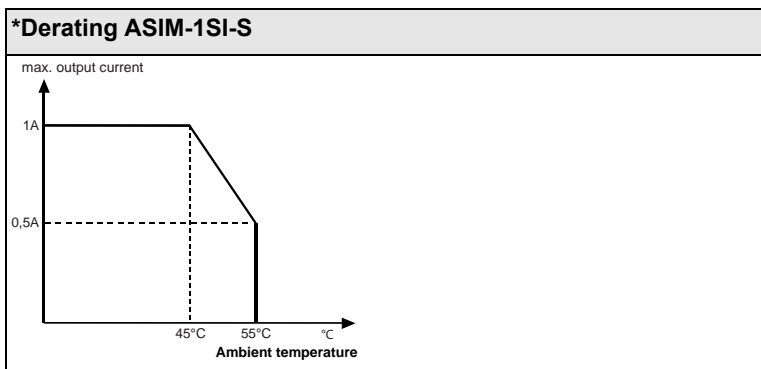
The supply of the safe input is made out of AS-i. If the bus communication is interrupted, the outputs are switched to their de-en-

ergised state by the watchdog. Besides the outputs are short-circuit-protected, overload-proof and pole protected.

Using the outputs, you can drive up to 2 indicator lights, with the power being drawn from the separated 24V.

Article no.	ASIM-1SI-C / ASIM-1SI-S
Connection	
Connection	COMBICON
Length of connector cable	I/O: max. 15 m
AS-i	
Voltage	22 ... 31,6V
AUX	
Voltage	24V (20 ... 30V DC) (PELV)
Output	
Number	2, electronic, short-circuit-protected
Power supply of outputs	out of AUX voltage
Display	
LED AUX (green)	24V DC AUX on
LED OUT (yellow)	2x outputs
Environment	
Applied standards	EN ISO 13849-2:2008 EN 61 000-6-2, EN 61 000-6-4 EN 62 061:2005 SIL3 EN 954-1 cat 4 EN 50 295
Protection category EN 60 529	IP20 (only suitable for use in electrical operating rooms / control cabinets with IP 54 minimum protection rating)
Allowable shock and vibration stress	≤ 15 g, T ≤ 11 ms 10 ... 55 Hz, 0,5 mm amplitude
Dimensions (W / H / D in mm)	22,5 / 99,6 / 50,5

Article no.	ASIM-1SI-C	ASIM-1SI-S
AS-i		
Profile	S-7.B.0, ID1=F	S-7.B.1, ID1=F
Max. current input out of AS-i	< 80mA	60mA
AUX		
Max. current input out of AUX	1,5A at output short-circuit	4A max.
Input		
Number	2 / 1 safe inputs (2 channels) for floating contacts	2 / 1 safe inputs (2 channels) for OSSDs
Power supply of inputs	out of AS-i voltage	out of AUX voltage
Switching threshold	10mA, R < 150Ω	V _{in} > 11V for High-Level, input current ≥ 2,5mA at 15V
Power supply for external sensor	–	1,8A out of AUX voltage
OSSD input test pulses	–	0 ... 50 Hz
OSSD input test pulse width	–	U _{aux} ≥ 21,5V= 0 ... 1 ms test pulses possible U _{aux} ≥ 17V= 0 ... 0,8 ms test pulses possible U _{aux} < 17V= 0 ... 0,6 ms
Output		
Max. output current	200mA per output	1A per output*
Display		
LED ASI (PWR) (green)	AS-i power supply on	
LED FLT / FAULT (red)	red: communication error or address is 0 red, flashing: overload, internal supply of the in-/outputs	red: AS-i communication error, slave does not participate in the normal exchange of data, e.g. slave address 0 red, flashing: overload or AUX voltage missing
LED CC (red)	cross-connection of the input lines, peripheral fault	–
LED IN (yellow)	2x safe inputs	
Environment		
Applied standards	–	EN 61 131-2
	EN ISO 13 849-1:2008/PLe Kat 4	
Operating temperature	0°C ... +70°C	0°C ... +55°C
Storage temperature	-40°C ... +85°C	



Programming:	AS-i Bit-setting			
	D0	D1	D2	D3
	Safe input			
ASIM-1SI-C	S11 / S12		S21 / S22	
ASIM-1SI-S	S1		S2	
	Output			
ASIM-1SI-C / ASIM-1SI-S	O1	O2	not used	not used
	Parameter bit			
	P0: watchdog (0 off / 1 on), P1, P2, P3 not used			

