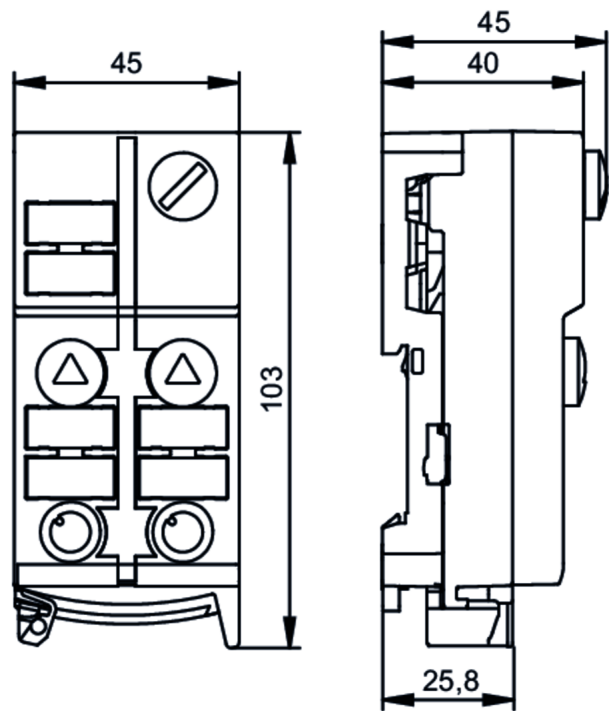


AC509S



Safe AS-Interface ClassicLine module with quick mounting technology

ClassicLine 2x2SI 2DOT 2LO



Application	
Design	housing for DIN rail mounting
Application	AS-i Safety at Work
Electrical data	
Operating voltage [V]	26.5...31.6 DC; (cULus - Class 2 source required)
Current consumption [mA]	< 280
Max. current load per module/slot [A]	0.2
Integrated watchdog	yes
Inputs / outputs	
Number of inputs and outputs	Number of digital inputs: 4; Number of digital outputs: 2
Inputs	
Number of digital inputs	4; (2 x 2 safety inputs)
Input circuit of digital inputs	PNP
Sensor supply of the inputs	AS-i
Max. total current rating of inputs [mA]	200
Input current [mA]	8
Short-circuit detection	yes
Cross-fault monitoring	no
Short-circuit proof	yes
Outputs	
Output signal	switching signal
Number of digital outputs	2



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Voltage range DC	[V]	18...30; (AS-i)
Max. current load per output	[mA]	50
Short-circuit proof		yes
Electrically separated		no
Actuator supply outputs		AS-i

Operating conditions

Ambient temperature	[°C]	-25...55
Note on ambient temperature		with switched outputs: -25...40 °C
Max. height above sea level	[m]	2000
Protection		IP 67
Degree of soiling		2

Tests / approvals

EMC	EN 62026-2	
	EN 61326-3-1	

Safety classification

Complies with the requirements		ISO 13849-1 Category 3, PL d
		IEC 61508 SIL 2
Mission time TM (additional indication)		20 years
PFH	[1/h]	2,33E-11

AS-i classification

AS-i version		2.11; 3.0
Extended addressing mode		no
AS-i master profile		M3; M4
AS-i profile		S-7.B.E
AS-i I/O configuration	[hex]	7
AS-i ID code	[hex]	B.E
AS-i certificate		128301

Mechanical data

Weight	[g]	296.25
Housing		rectangular
Type of mounting		AS-i flat cable connection; Mounting on DIN rail; (TH35 (EN 60715))
Dimensions	[mm]	103 x 45 x 44.7
Material		housing: PA; Piercing contacts: CuSn6 nickel-plated and tin-plated

Displays / operating elements

Display	Power	1 x LED, green
	errors	1 x LED, red
	Switching status	1 x LED, yellow
	alarm	1 x LED, red

Electrical connection

Module connection	Flat cable
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Accessories

Items supplied	lower part
Accessories (optional)	Addressing cable:, E70213
	Protective cap: M12, E73004



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Remarks		
Remarks	PL d, cat. 3, SIL 2 only if the fault exclusions described in the manual are used	
Pack quantity	1 pcs.	

Electrical connection - Socket SI-1 / SI-2

Connector: 2 x M12; coding: A; Maximum cable length: 10 m

1 (I+)	L+	
2 (IN1)	IN1	DI1
3 (I-)	L-	
4 (IN2)	IN2	DI2
5	n.c.	

Electrical connection - Socket O-3

Connector: 1 x M12; coding: A; Maximum cable length: 10 m

1	n.c.	
2	n.c.	
3 (I-)	L-	
4 (OUT O3 (PNP))	OUT3	DO3 (PNP)
5	n.c.	

Electrical connection - Socket O-4

Connector: 1 x M12; coding: A; Maximum cable length: 10 m

1	n.c.	
2	n.c.	
3 (I-)	L-	
4 (OUT O4 (PNP))	OUT4	DO4 (PNP)
5	n.c.	
DI: digital input; DO: digital output; IN: Input; OUT: Output; n.c.: not used		