

Technical Data SAI



Fig. 1 SAI photo

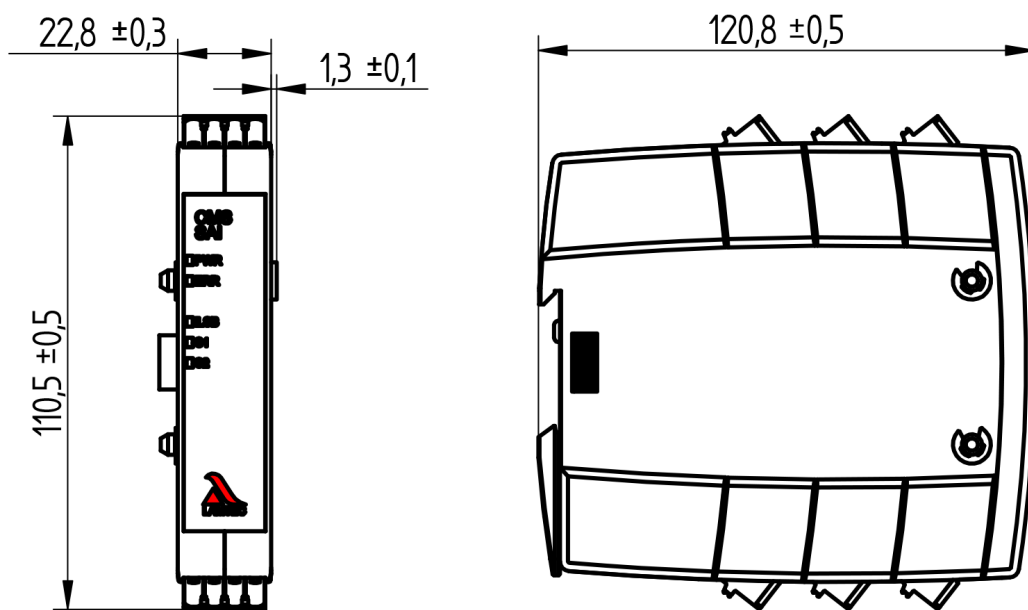


Fig. 2 SAI dimensional drawing

Part number	
SAI Safe Analogue Input Component	Type 668R0600-XX*

* XX = dependent on the configuration

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Dimensions (h x w x d)	120 x 22.8 x 121 mm 4.72 x 0.90 x 4.76" in
Weight	0.131 kg 0.29 lb
Power supply voltage	24 VDC \pm 20 % (by connecting plug from MCC)
Current draw	min: 65 mA max: 350 mA
Power consumption	8.4 W
Current carrying capacity of reference voltage outputs	(X11-X16 Pin 1): max. 80 mA per input
Flammability	UL94 V-0
Voltage inputs	0 ... 10 V Ri = 2 M Ω Tolerance \pm 1 % cable length max. 200 m 656.17 ft (use shielded cable)
Current inputs	0/4 ... 20 mA Ri = 390 Ω Tolerance \pm 1 % cable length max. 200 m 656.17 ft (use shielded cable)
Temperature inputs	Pt100 Tolerance (3-wire interface) -200 °C \pm 0.2 °C -328 °F \pm 0.2 °F 0 °C \pm 1.1 °C 32 °F \pm 2.0 °F 200 °C \pm 2.0 °C 392 °F \pm 3.6 °F 400 °C \pm 3.5 °C 752 °F \pm 6.3 °F 600 °C \pm 4.0 °C 1112 °F \pm 7.2 °F 800 °C \pm 5.1 °C 1472 °F \pm 9.2 °F cable length max. 200 m 656.17 ft (use shielded cable)
	Pt1000 Tolerance (3-wire interface) -200 °C \pm 0.3 °C -328 °F \pm 0.5 °F 0 °C \pm 1.6 °C 32 °F \pm 2.9 °F 200 °C \pm 3.0 °C 392 °F \pm 5.4 °F 400 °C \pm 4.6 °C 752 °F \pm 8.3 °F 600 °C \pm 6.4 °C 1112 °F \pm 11.5 °F 800 °C \pm 7.9 °C 1472 °F \pm 14.2 °F cable length max. 200 m 656.17 ft (use shielded cable)
Impulse inputs	input frequency max. 120 Hz cable length max. 200 m 656.17 ft (use shielded cable for cable lengths of 10 m or more)

Environmental Conditions

Operation	permitted temperature range	-30 ... +70 °C -22 ... +158 °F (condensation prohibited)
	permitted humidity	5 % ... 95 % relative humidity
Transport/Storage	permitted temperature range	-40 ... +80 °C -40 ... +176 °F (condensation prohibited)
	permitted humidity	5 % ... 95 % relative humidity
Degree of protection	DIN EN 60529	IP20 (if all terminal are mounted)

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EU Declaration of Conformity

2014/35/EU	Low Voltage Directive
2014/30/EU	EMC Directive
2014/68/EU	Pressure Equipment Directive Kat. 4 Mod. B+D
(EU) 2016/426	Gas Appliance Regulation (GAR)
2011/65/EU	RoHS

NOTICE

The limits of the technical data must be strictly adhered to.

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Order Information

Description/Type	Order no.
SAI Safe Analogue Input Component, power supply 24 VDC/8,4 W Module with 6 non-safe analogue inputs or 3 safe, analogue inputs and 2 pulse inputs for fuel meters. As analogue input signals, 4 ... 20 mA, Pt100 and Pt1000 can be processed.	668R0600...
A 10 – CUSTOMER	Selection
STANDARD	S
A 20 – COLOR	Selection
BLACK (STANDARD)	SW
A 30 – CONNECTOR SET	Selection
SCREW TERMINALS Connector set included	SC
SPRING TERMINALS Connector set included	FED
WITHOUT Connector set not included, must be ordered separately, see „Separate Connector Sets for SAI“	0

Separate connector sets for SAI

when attribute 30 „CONNECTOR SET“ = selection „0“

Description/Type	Order no.
Screw Terminals SAI	668R0067
Spring Terminals SAI	668R0077

Approvals



The information in this publication is subject to technical changes.



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