

Low level limiter SMLC2

with self-monitoring

Application and function

The evaluator type SMLC2 is used to monitor a minimum fill level, e.g. in steam boilers. In conjunction with level probes, this is a limiter with a safety function in accordance with the PED.

The SMLC2 complies with EU Directive 2014/68/EU // 2014/35/EU // 2014/30/EU with Annex III, Modules B+D (Category IV) Applied standards:

AD2000;

DIN EN 12952-11; DIN EN 12953- 9; DIN EN 61508 -1/ -2/ -3; DIN EN 61326-1; DIN EN 61010-1

With the help of the conductive measuring method, which utilises the conductivity of the medium, the emerging or submersion of the electrode is detected. If the electrode tip emerged, a voltage is generated at the measuring resistor by the flowing alternating current and the contacts of the safety chain are closed. If operation is correct, the electrode is submerged, and the safety chain is released. The current system status is indicated by the different coloured LEDs.

The limiter constantly performs self-monitoring, which guarantees its safety function and can be used in systems with safety requirements up to SIL3 level. A test button is therefore not necessary.



SMLC2

Technical basic equipment

- SMLC2 in plastic plug-in housing for installation in switch cabinets
- Quick fastening with spring catch on standard 35 mm mounting rail to DIN EN 50022 or screw fastening on mounting plate

Technical data

Item number	20-00110
Mains connection	230V AC (-15% +10%) 50 Hz
Power consumption	3,0 VA

Safety chain ¹⁾	Switching voltage (max.)	230V AC
	Switching current (max.)	4A ohmic
Additional messages ¹⁾	Switching voltage (max.)	230V AC
	Switching current (max.)	4A ohmic
Protection class according to DIN EN 60529		IP40 ²⁾
Self-monitoring		every 2 seconds
Permissible ambient temperature		0°C < Tamb < 55°C
Electrical conductivity of the liquid		0,5 µS/cm ≤ ρ ≤ 10.000 µS/cm
Length of the connecting cable		max. 100 m
Device fuse		Short-circuit proof transformer
Measuring cable (data exchange)		shielded, cores Ø = 0,75 mm ²

¹⁾ A contactor must be used for inductive / larger loads

²⁾ In accordance with EN 12953-9 // EN 12952-11, 4.3.4, protection class IP54 must be ensured in the boiler area.
Switch cabinet installation is therefore required.

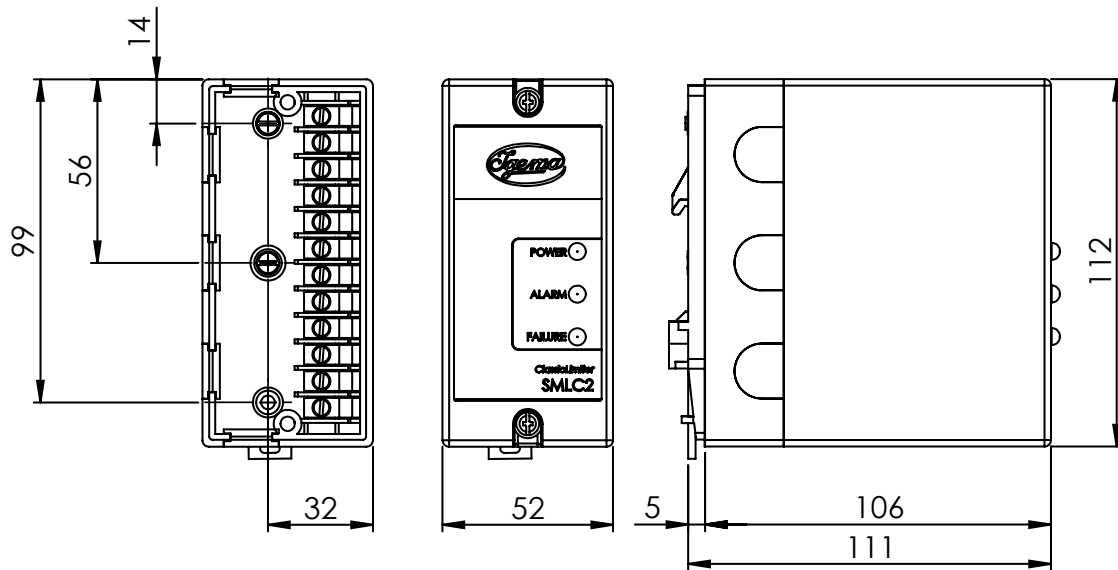
Applied regulations

EU type examination	CE 0035 DIN EN 12952-11: 2007 DIN EN 12953-9: 2007
Safety integrity level	SIL 3 EN 61508: 2010; EN 12952-11: 2007 5.5; EN 12953-9: 2007 5.5
Electromagnetic compatibility	EN 61326-1: 2006
Low voltage	EN 61010-1: 2010

Probes

zul. Druck [PS]	zul. Temperatur [TS]	Elektroden für den Einsatz mit dem SMLC2		Anschluss	Elektroden- länge Y
32 bar 464 psig	239 °C 462 °F	EL030 EL030-M		G 1/2"	125mm bis 1700mm
		EL030-B		G 3/4"	(4.9" bis 66.9")
		Datenblatt: D-08-D-50232-EN			
32 bar 464 psig	239 °C 462 °F	MS015A		G 1"	60mm bis 1500mm (2.4" bis 59")
		Datenblatt: D-08-D-50238-EN			
32 bar 464 psig	239 °C 462 °F	MS015B		G 1 1/2"	60mm bis 1500mm (2.4" bis 59")
		Datenblatt: D-08-D-50238-EN			
200 bar 2900 psig	367 °C 692 °F	EL230 EL230 TS		G 1/2"	151mm bis 1700mm (5.9" bis 66.9")
		Datenblatt: D-08-D-63773-EN			

Dimensions and sizes



Digital documentation



Direct download



Product page on the Internet

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