

LEAK DETECTOR

Technical datasheet

Technical datasheet No. : SECENV-FUITALARME

Product code : 308 361 - 308 372 – 308 370

Description

Class II leak detection system (EN 13160-1), with intrinsically safe probe circuit for detecting a leak in a double-walled tank. The system consists of a control unit, a container for leak detection fluid (LAF container black) and a probe. Control unit with operating and alarm indicators, audible/visual alarm, test button. The audible alarm can be muted with the Acknowledge button.

Application

For double-walled tanks with liquid in the interstitial space. For monitoring flammable and non-flammable water-polluting liquids stored aboveground and underground.

Operation

- ✓ The LAF container serves as detection container and as expansion vessel at the same time. For aboveground tanks, the usable volume of the LAF container must be at least 1L per 35L in the interstitial space of double-walled tanks. For underground tanks, the ratio must be at least 1 for 100.
- ✓ The LAF container can be installed in hazardous areas zones I and II (e.g. manhole of petrol tanks).
- ✓ The alarm control unit is equipped with EX labelling, but it must be installed outside an EX hazardous area zone!
- ✓ Alarm is triggered if the probe fails or in case of a leak.
- ✓ Approved for all suitable tanks under atmospheric conditions.

+ Product

- ✓ The voltage-free relay contact is provided for connection of additional external alarm equipment (such as horns) or an additional alarm unit 16 SC.R
- ✓ A « TEST » button for checking the correct operation of the control unit

Standards and approvals

- ✓ Compliant with EN 13160-1 :2003 (class II) standard
- ✓ Compliant with EN 13160-3 (class II) standard
- ✓ CE type certificate TPS 04 ATEX 1011X
- ✓ CE Conformity according to ATEX regulation 2014/34/UE with new EC type test certificate numbers.

Option

- ✓ Connection kit n°1 (code 308 363) and connection kit n°2 (code 308 364) contain the necessary components for providing a connection line between the LAF container and the double-walled tank. The kit n° 1 consists of two hose nozzles G ¾ A (Ø 16 mm), 2 screw-thread clamps, screws and wallplugs. An additional cable connection fitting (IP 54) is available in the kit n°2.

Warranty

12 months provided fitting and operating instructions are observed.

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EN 13160-1

EN 13160-3

Technical data

1) Alarm control unit 16 SC.R (must be installed outside EX zone/hazardous area)

- Marking protection type  II (1) G [Ex ia] IIC
- Supply voltage : 230 V AC / 50-60Hz
- Voltage tolerance : 10% to 15%
- Level alarm sound : min. 70 dB(A)
- Dimensions (H x L x P) : 120 x 120 x 50 mm

2) LAF container

- Marking protection type  II 1 G Ex ia IIC Ga
- Material : PE electrostatically conductive
- Nominal volume : 10,4 L
- Usable volume : 4,5 L
- Connection line : male thread G ¾ A
- Probe cable : 2 x 1,5 mm² – length supplied 0,5 m

3) Working temperature

- Alarm control unit : -5°C to +50°C
- LAF container : -20°C to +60°C
- Liquid leak detection : -20°C to +60°C

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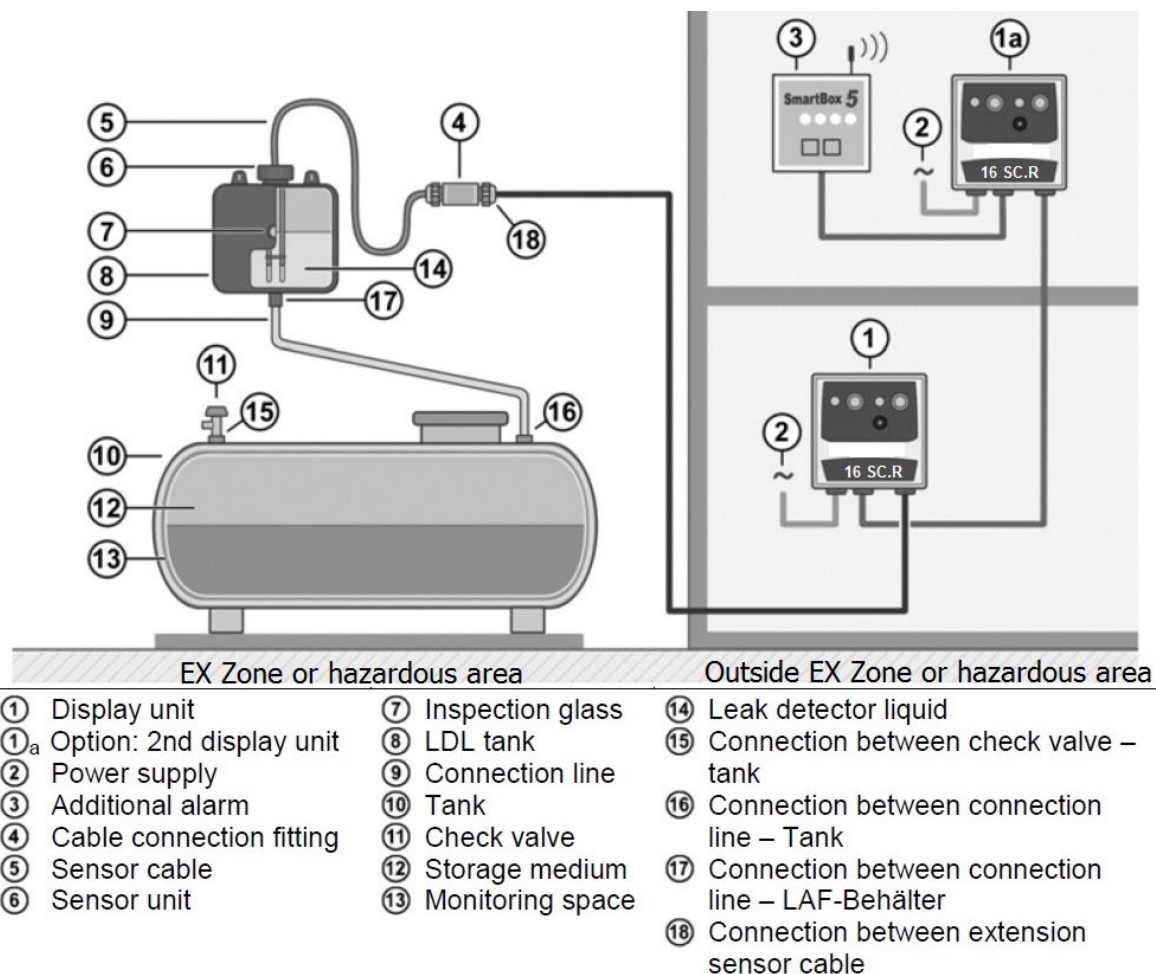
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Exemple of installation



	Alarm control unit 16 SC.R with relay output	LAF container + probe	Kit N°1	Or	Kit N°2	Weight Kg	Product code
Leak detector Fuitalarme 16 SC.R with relay output (without Kit)	✓	✓				2,17	308 361
Leak detector Fuitalarme 16 SC.R with relay output + Kit N°1	✓	✓	✓	Or		2,58	308 372
Leak detector Fuitalarme 16 SC.R with relay output + Kit N°2	✓	✓		Or	✓	2,62	308 370
Connection kit N°1			✓	Or		0,37	308 363
Connection kit N°2				or	✓	0,41	308 364