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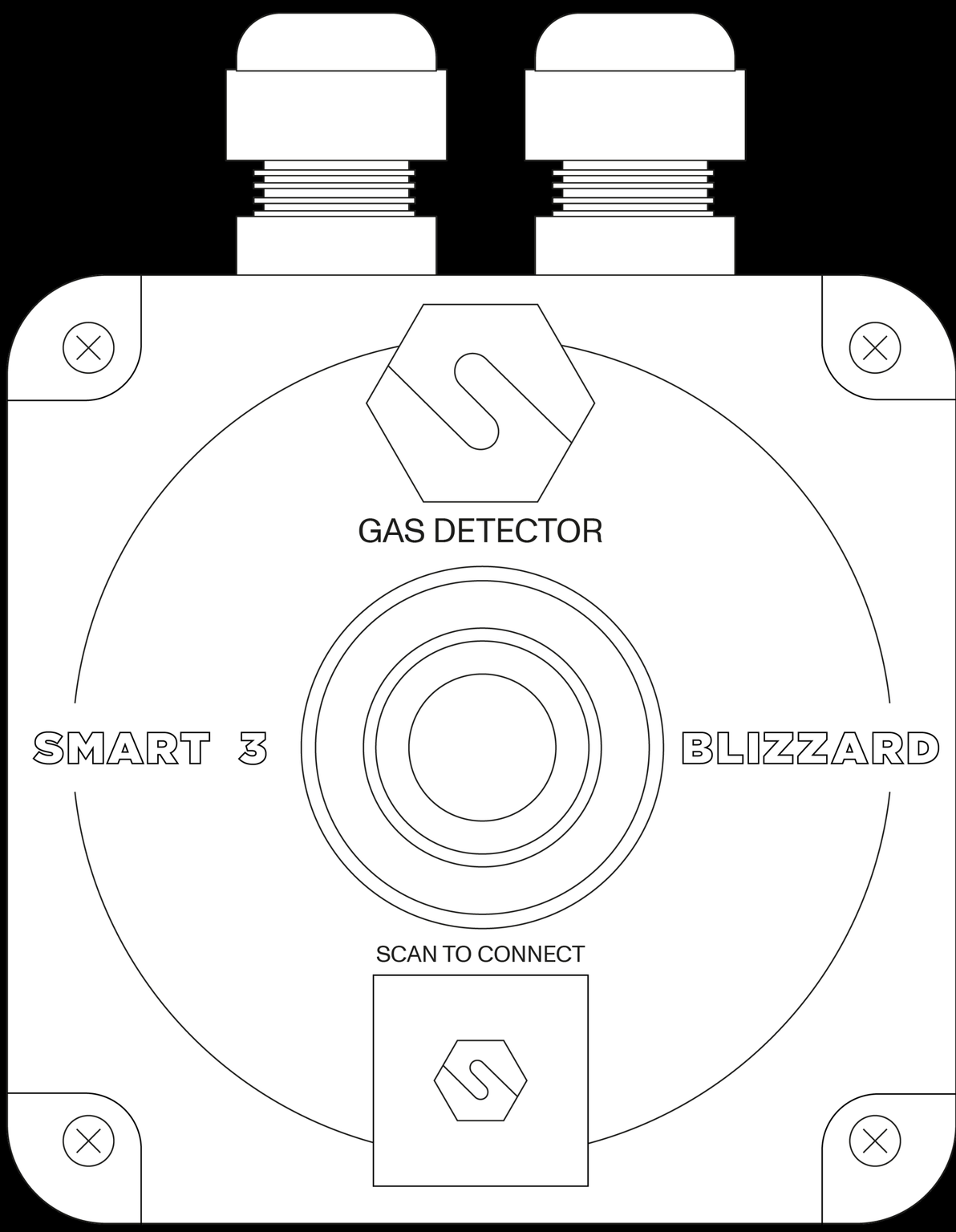
SMART3-BLIZZARD

With infrared sensor



Datasheet

DS5217E Rev.3 13/10/2025
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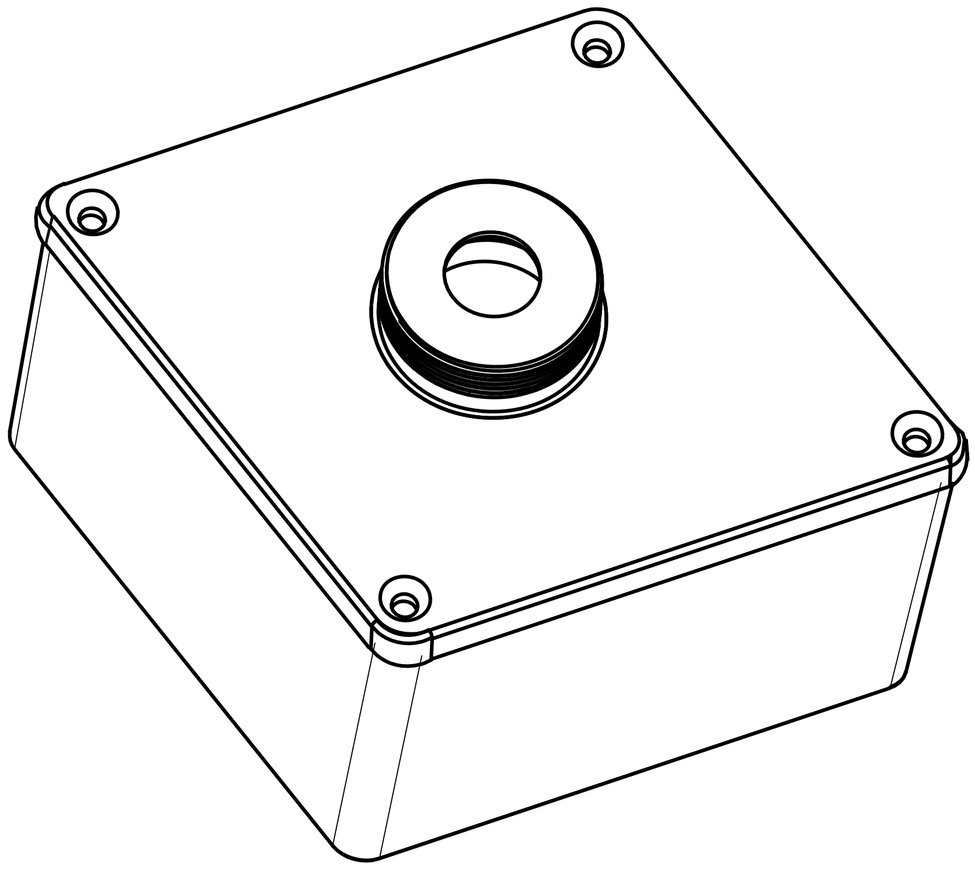
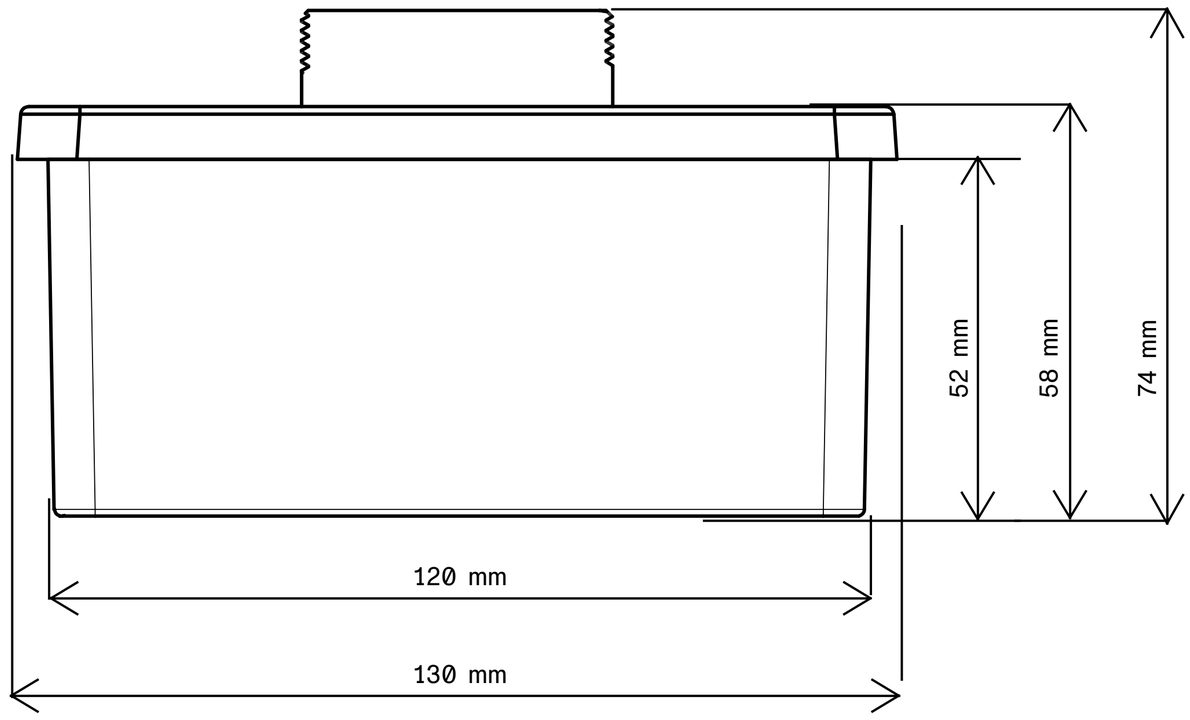
SMART3-BLIZZARD is developed to detect refrigerant gasses in non classified areas, as machinery rooms and laboratories.
An infrared sensor is used to detect gasses, thanks to the high reliability and selectivity.
4 smart LEDs illuminate the transparent ring to describe the detector status and an internal buzzer is activated in alarm and fault conditions.
The SMART3-BLIZZARD gas detector has a standard 12-24 Vdc power supply.
The gas detector has 2 relay outputs, and an analog 4-20 mA output.
The polycarbonate case has a global size of 130 x 130 x 74 mm. The box has 2 entries with M20 cable glands. On the sides there are pre-formed guides that can be drilled to add up to 6 M16 cable glands.
The control and calibration of the detector are carried out via a wireless connection and a dedicated SENSE interface, which can be accessed from a PC, tablet, or smartphone.

Sensing element	
Application	Machinery rooms, laboratories and non-classified areas
Sensing element	Infrared
Predicted life sensor	≥ 5 years
Gas detected and Fullscale	See product codes table
Accuracy	±5% fullscale
Electrical data	
Power supply	12-24 Vdc
Signal output	2 relays; 4-20 mA analog output
Dissipated power	< 3W
Relays contact rating	0.6 A at 30 Vdc
Optical indications	4 smart LED
Acoustic indications	Buzzer 63 dB @1mt
Environmental conditions	
Storage temperature	-40 / +85°C
Operating temperature	-10 / +50°C
Operating humidity	0 / 95% RH non condensing

Compliance	
EMC	EN 61000-6-3:2007 + A1:201; EN 50270:2015
Radio	EN 300 328 V2.2.2
Functional safety - SIL 2 *(IN PROGRESS)*	EN 61508:2010 Parts 1, 2, 3, 4, 5, 6, 7 EN 50402:2017
Reference standards	
Refrigeration	EN 378-3; EN 14624 - *in progress*; EN 50676 - *in progress*; IEC 60335-2-40 Annex LL (replaced by TS 63542) - *in progress*; ANSI/ASHRAE 15 CSA B52: 2023 F-Gas Regulation EU 573/2024
External case	
Material	Polycarbonate
Dimensions	Box: 120 x 120 x 52 mm Cover: 130 x 130 x 22 mm
Weight	450 g
Cable entry	2 entries with M20 cable glands 6 optional entries for M16 cable glands
IP Grade	IP54
Product codes	
S5116R32	R32 SMART 3 Blizzard gas detector, 0 - 100% LFL, 4-20 mA
S5117R454B	R454B SMART 3 Blizzard gas detector, 0 - 100% LFL, 4-20 mA
S5118R410A	R410A SMART 3 Blizzard gas detector, 0 - 10.000 ppm, 4-20 mA
S5226R1234YF	R1234YF SMART 3 Blizzard gas detector, 0 - 5.000 ppm, 4-20 mA
S5227R1234ZE	R1234ZE SMART 3 Blizzard gas detector, 0 - 5.000 ppm, 4-20 mA
S5228R134A	R134A SMART 3 Blizzard gas detector, 0 - 5.000 ppm, 4-20 mA
S5229R404A	R404A SMART 3 Blizzard gas detector, 0 - 5.000 ppm, 4-20 mA

Mechanical drawings





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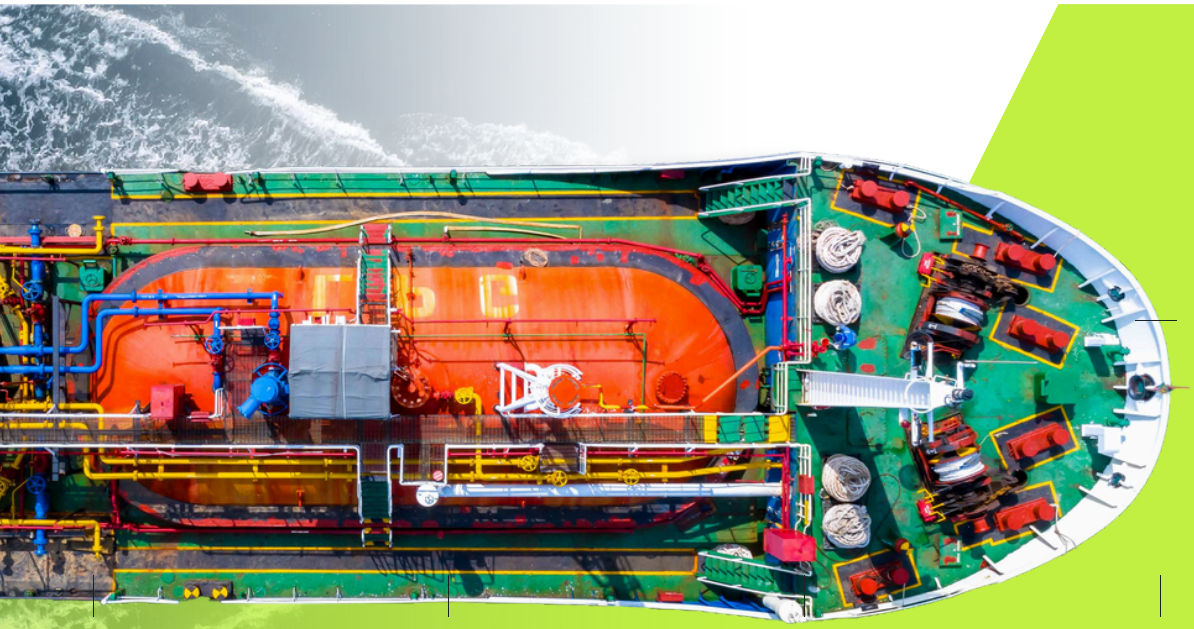
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