

SMART3H LITE

SMART3H LITE allow to monitor the refrigerant gases and carbon dioxide in hotels and residential areas. The design is aimed to have cost-effective product, thanks also to the presence of a special infrared sensor. The detector status is constantly displayed by three intelligent LEDs that uniformly illuminate the semi-transparent crown.

SMART3H LITE gas detector has a 12-24 Vdc power supply, as outputs it's equipped with an RS485 serial output and two relays.

The housing is made of polycarbonate and has an IP42 degree of protection.



Sensor

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| Application | Hotel and residential |
| Sensing element | Infrared |
| Predicted sensor life | >5 years |
| Gas detected | R32, R1234YF, R1234ZE, R454A, R454B, R454C, R452B, R134A, R410A, R404A, R407C, CO ₂ |
| Fullscale | 0-20% LFL 0-5000 ppm |
| Alarm thresholds | 5 e 10% LFL 1000 e 2000 ppm |

Electrical data

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|-----------------------|-------------------------------|
| Power supply | 12-24 Vdc |
| Signal output | 2 relays; RS485 serial output |
| Power consumption | 150 mA at 24 Vdc |
| Relays contact rating | 1.0 A at 30 Vdc |
| Optical indications | 3 smart LEDs |
| Acoustic indications | Buzzer 70 dB |
| Hall effect sensor | Yes, for buzzer silence |

Product P/N

| | |
|--------------|---|
| S3843R32 | R32 detector, thresholds 5% and 10% LFL, 12-24 Vdc |
| S3844R1234YF | R1234YF detector, thresholds 5% and 10% LFL, 12-24 Vdc |
| S3845R1234ZE | R1234ZE detector, thresholds 5% and 10% LFL, 12-24 Vdc |
| S3848R454A | R454A detector, thresholds 5% and 10% LFL, 12-24 Vdc |
| S3849R454B | R454B detector, thresholds 5% and 10% LFL, 12-24 Vdc |
| S3850R454C | R454C detector, thresholds 5% and 10% LFL, 12-24 Vdc |
| S3851R452B | R452B detector, thresholds 5% and 10% LFL, 12-24 Vdc |
| S3846R134A | R134A detector, thresholds 1000 and 2000 ppm, 12-24 Vdc |
| S3847R410A | R410A detector, thresholds 1000 and 2000 ppm, 12-24 Vdc |
| S3854R32 | R32 detector, thresholds 1000 and 2000 ppm, 12-24 Vdc |
| S3855R404A | R404A detector, thresholds 1000 and 2000 ppm, 12-24 Vdc |
| S3856R407C | R407C detector, thresholds 1000 and 2000 ppm, 12-24 Vdc |
| S3857R1234YF | R1234YF detector, thresholds 1000 and 2000 ppm, 12-24 Vdc |
| S3858R1234ZE | R1234ZE detector, thresholds 1000 and 2000 ppm, 12-24 Vdc |
| S3859CO2 | CO ₂ detector, thresholds 1000 and 2000 ppm, 12-24 Vdc |

External case

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|---------------|---|
| Material | Polycarbonate |
| Dimensions | D: 95.5mm H:52.5 mm |
| Weight | 200 g |
| Cable entries | Lateral entry: pre-formed guide that can be drilled for M16 fairlead (supplied with the gas detector) Entry on the bottom: 10 mm hole. |
| IP grade | IP42 |

Environmental conditions

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|-----------------------|---------------------------|
| Storage temperature | -40/ +85°C |
| Operating temperature | -10 / +50°C |
| operating humidity | 0 / 95% RH non condensing |

Compliance

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|-------------------------|---|
| EMC | EN 61000-6-3:2007 + A1:2011; EN 50270:2015 |
| Refrigeration Standards | EN 378-3; EN 14624; EN 50676; IEC 60335-2-40 Annex LL; ISO 5149-3; F-Gas Regulation |

Mechanical drawings

