

# 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

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 <sub>2</sub>
Fullscale	0-20% LFL 0-5000 ppm
Alarm thresholds	5 e 10% LFL 1000 e 2000 ppm

## Electrical data

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 <sub>2</sub> detector, thresholds 1000 and 2000 ppm, 12-24 Vdc

## External case

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

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

## Compliance

EMC	EN 61000-6-3:2007 + A1:2011; 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

