



LS7-SF6-100ppm

High sensitivity NIDR Single Channel
R600 refrigerant gas detector

Product highlights

0-99.9 ppm concentration range

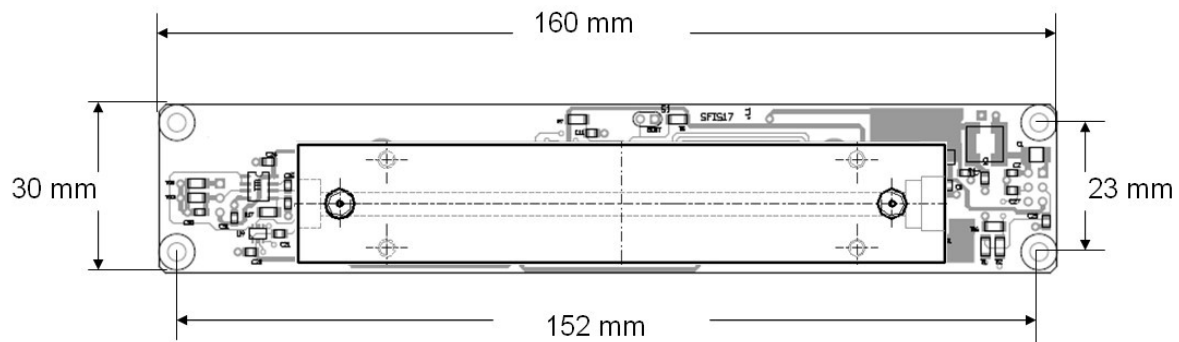
Single channel detector for highest sensitivity

Easy to integrate in OEM systems

Applications

High Voltage isolation leak detection

Mechanical drawing



Operative Data

Sensor type	Single channel NDIR detector (LS-series)
Detected gas	SF6 (Sulfur hexafluoride)
Measuring range	0 ÷ 99.9 ppm
Operating temperature range	0 ÷ 55 °C (non-condensing)
Storage temperature range	-20 ÷ 85 °C
Operating humidity range	0 ÷ 90 % (non-condensing)
Gas supply	Flowing (nearly atmospheric pressure)
Flow rate	100 ÷ 400 sccm
Warm-up time	< 60 s (start-up time) < 30 minutes (full specification)

Mechanical & Electrical Specifications

Dimension (L x W x H)	160mm x 30mm x 40mm
Weight	155 g
Gas connector	Rapid fitting for 3mm o.d. tubing
Voltage supply	5V ± 10%
Current consumption	120mA (rms) – 220mA (peak)
Signal Output	0-3.3V
Communication Interface	UART (Baud-rate: 9600-115200) ¹

¹ ASCII Protocol described in the LS-series user manual. Default baud-rate is 9600.

Measuring Specifications

Data rate	2/s
Response time T90 (0 – 90 %)	1 s
Resolution	0.1 ppm
Repeatability	± 0.2 ppm
Lower Detection Limit (LDL)	0.2 ppm
H2O vapor influence	None
Cross-sensitivity	Contact factory