micropower gas sensing

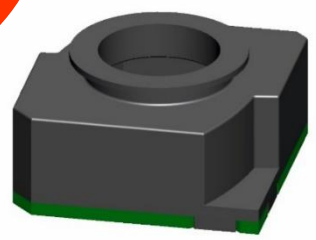
MGS TECHNOLOGY

Low power 1 series

MIPEX-01S

In development

[CH_4 | C_3H_8 | CO_2]





Half-height solution for small-sized and portable gas analyzers

MIPEX-01S is a compact infrared sensor designed for measuring methane, propane or carbon dioxide concentrations in small-sized and portable gas detectors.

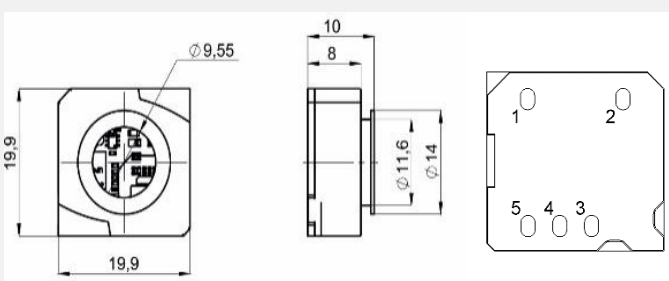
Technical specifications

Parameter	Value
Measurement range, % vol.	0...5 – CH_4
	0...2.5 – C_3H_8
	0...5 – CO_2
Accuracy (+20...+25 °C)	±0.1% vol. or ±5% of reading (whichever is greater) for CH_4
	±0.05% vol. or ±5% of reading (whichever is greater) for C_3H_8 or CO_2
Response time T(90) sec.	≤10 – CH_4 and C_3H_8
	≤15 – CO_2
Operating temperature	-40...+60°C
Humidity tolerance	Up to 98% (without condensation)
Supply voltage	+2.7...+5.0 V
Average current, µA	≤160
Dimensions	19.9×19.9×10 mm
Housing material	Polycarbonate Lexan®
Weight, g.	10.5
Sensor is designed in compliance with:	
IEC 60079-0, IEC 60079-11	
UL 913, UL 60079-11, CSA C22.2 No. 60079-11	
EN IEC 60079-0, EN 60079-11	

This specification is subject to change without notice

Features

- Power consumption: less than 0.5 mW.
- Small-sized – 1 series sensor.
- Smart sensor with embedded microcontroller returns linearized, temperature-compensated output data.
- LED based dual wavelength technology.
- Low response time T(90).
- Provides intrinsically safe explosion protection level “ia”.
- Long-term measurement stability: over 10 years.



Contact Us

sales@mgs-technology.com

mgs-technology.com

See the list of the representatives on the website