

**EN 1D48**

# Carbon monoxide and flammable gas detector

# SOLIGHT

Thank you for purchasing a carbon monoxide and flammable gas detector. Please read this manual carefully and heed the safety warnings and instructions before installing, using or repairing the equipment. This will ensure not only the protection of persons, but also the long life of the equipment.

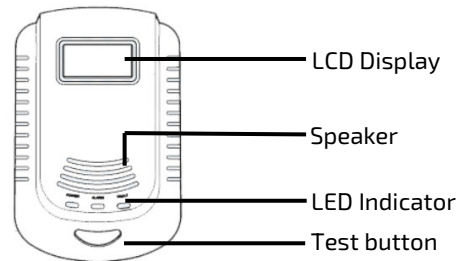
This product is used to detect both toxic carbon monoxide and flammable gas (e.g. liquefied petroleum gas, natural gas, methane, etc.). This detector uses catalytic combustion method and electrochemical sensor, which is stable and reliable.

## TECHNICAL PARAMETERS

Mains power supply	AC 90 - 240 V / 50 - 60 Hz
Batteries	9V, rechargeable - recommended (not included)
Working temperature	0-50°C
Working relative humidity	10%-95%
Concentration display	Carbon monoxide gas: 30PPM~999PPM Flammable gas: 5%~20% LEL ±3.%LEL(2.500PPM~10.000PPM±1, 500PPM)
Dimensions	112x73x42mm

## START-UP AND DESCRIPTION OF THE DEVICE

- Connect the device to the power supply, then the light indication will be displayed and the device will remain in this state for about 3 minutes before the device is ready for operation.
- The LED indicator shows three states:  
Power - green, Alarm - red and Fault - yellow.



## GAS CONCENTRATION DISPLAY

- The LCD will display the concentration if the carbon monoxide concentration is greater than 30 PPM or the flammable gas concentration is greater than 5% LEL (Lower Explosive Limit, which is equal to 2500 PPM).

If the carbon monoxide gas concentration is above 1000 PPM or the flammable gas concentration is above 20% LEL (equal to 10,000 PPM), the LCD display will show "HHH", indicating that the concentration is above 999 PPM.

## ALARM

Detection sensitivity in accordance with EN 50194-1:2009 / EN50291-1:2010

50PPM between 60 and 90 min.  
100PPM between 10 and 40 min.  
300PPM, up to 3 min.  
400PPM immediately

- If the carbon monoxide concentration is above the value, the detector will sound an alarm. At the same time, the concentration is displayed on the LCD.
- If the flammable gas concentration is greater than 6%LEL (equivalent to 3000PPM), the detector will sound an alarm. At the same time, the display shows the concentration.

## ERRONEOUS EVALUATION

- If the device detects an error while checking its status, the display will show "FAIL" and the yellow LED will flash.

## INSTALLATION

Select the appropriate installation position for your needs:

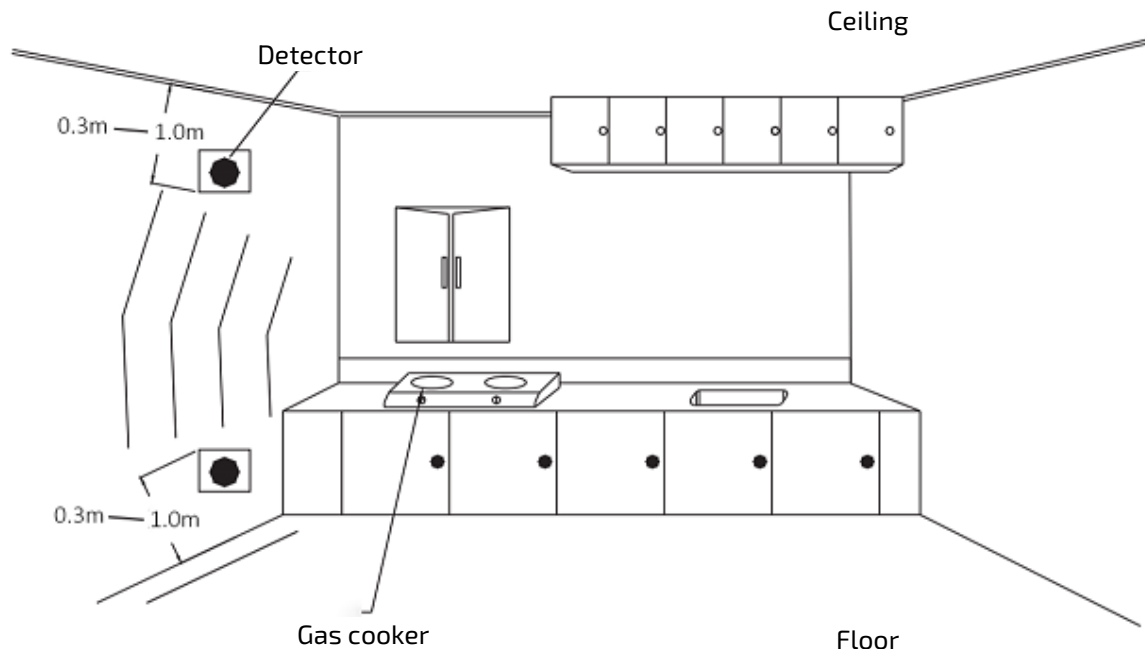
For detecting **heavier**-than-air gas:

- Install at a height of 0.3-1m from the floor and at a distance of less than 1.5m from the gas source.

For detecting **lighter**-than-air gas:

- Install at a distance of 0.3-1.5m from the ceiling and less than 1.5m from the gas source.

NOTE: Do not install near sources such as: direct airflow from vents, fans, doors, windows, steam sources, etc.



*Illustration of a suitable installation*

## WHEN THE ALARM IS TRIGGERED

When the concentration of carbon monoxide or flammable gas in the air reaches or exceeds a safe limit, the detector goes into alarm. Perform the following steps:

1. Immediately close the gas supply valve.
2. Open doors and windows for air circulation.
3. If this is not a misjudgement, call the emergency services. In the event of frequent false evaluations, check that the detector location is appropriate.

The product is covered by a CE Declaration of Performance in accordance with EU Regulation 305/2011. The Declaration of Performance, which complies with EN 50291-1:2018, EN 50194-1:2009, is available on request from the manufacturer: [info@solight.cz](mailto:info@solight.cz) or downloadable from [www.solight.cz](http://www.solight.cz).

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Importer: Solight holding s.r.o, Na Brně 1972, Hradec Králové.



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