

Sensepoint Plus, Sensepoint Pro, Series 3000 XPIS and Sensepoint XCD Duct Mounting Kit

Warning

A gas detector calibrated at 0.3l/m in static air will read high at elevated flow rates. This is a 'fail safe' effect that naturally occurs in duct applications. Elevated flow rates effectively make the detector more sensitive.

We recommend that the external inlet to the duct mounted unit (when mounted in a duct) be used for 'bump' test purposes only i.e. to give indication that unit is working and reactive to gas. An elevated flow rate of 5l/m should be used where air flow in the duct is in excess of 1500ft/min.

Detectors should be calibrated in 'still' air at 0.3l/m either via the duct mounting kit inlet (i.e. in situ) OR via the calibration cup (remove unit from duct) whichever is the more convenient. For details of calibration procedures refer to the Sensepoint Plus manual (SPPLMAN), Sensepoint Pro manual (SPPRMAN), Series 3000XPIS manual (S3KMAN) or Sensepoint XCD manual (SPXCDHMANEN) as appropriate.

The **Duct Mounting Kit** is used when fitting a Sensepoint Plus, Sensepoint Pro, Series 3000 XPIS or Sensepoint XCD gas detector to a duct (Part No.: 'SPPDM' is for Sensepoint Plus and Sensepoint Pro, 'S3KDMK' is for Series 3000 XPIS, 'SPXCDDMK' is for Sensepoint XCD).

The duct mounting kit is only suitable for use in applications for the detection of Flammable, Carbon Monoxide, Hydrogen Sulphide and Hydrogen gases.

It comes as a pre-assembled kit, fitted to a supplied sample part-duct.

Notes *The installation procedure describes one way of installing the detector and duct kit components in a target duct without interior access, i.e. from the exterior only. Experience with other types of target duct installations may allow modification of the procedures given.*

The target duct must be of square or rectangular cross-section with a maximum duct wall thickness = 1 mm (0.04in.).

The installation procedure consists of 3 parts:

- assembling duct components
- assembling detector components
- mounting the detector assembly to the duct assembly

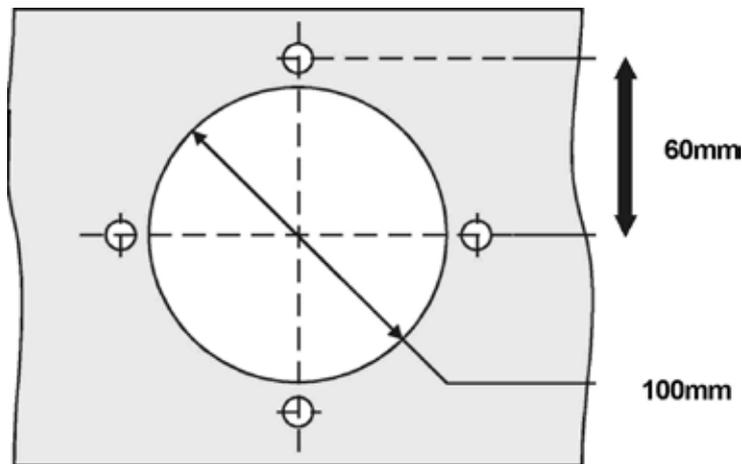
Refer to the Sensepoint Plus, Sensepoint Pro, Series 3000 XPIS or Sensepoint XCD manuals for electrical installation, operating and maintenance instructions.

Remove all the kit component parts from the sample part-duct before starting the installation procedure.

Note how the components are assembled together. Put the part-duct to one side.

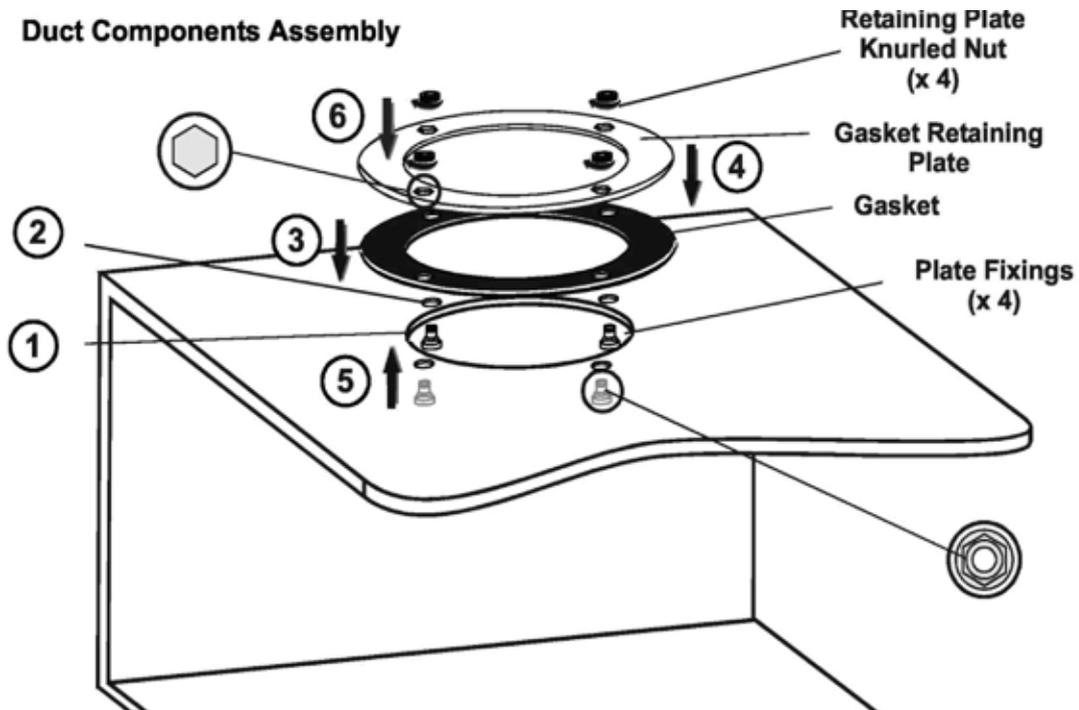
Assembling Duct Components

- 1 Drill a 100 mm diameter hole in the target duct wall.
- 2 Drill 4 x 10 mm equidistant holes around it. (use the part-duct as a template).
- 3 Align the Gasket over the holes.



Refer to the following diagram for the component positioning.

- 4 Fit the Gasket Retaining Plate over the gasket.



- 5 Fit the four Plate Fixings through the duct wall from the inside.

The hexagon shaped step on the fixings align with the hexagon shaped holes in the retaining plate.

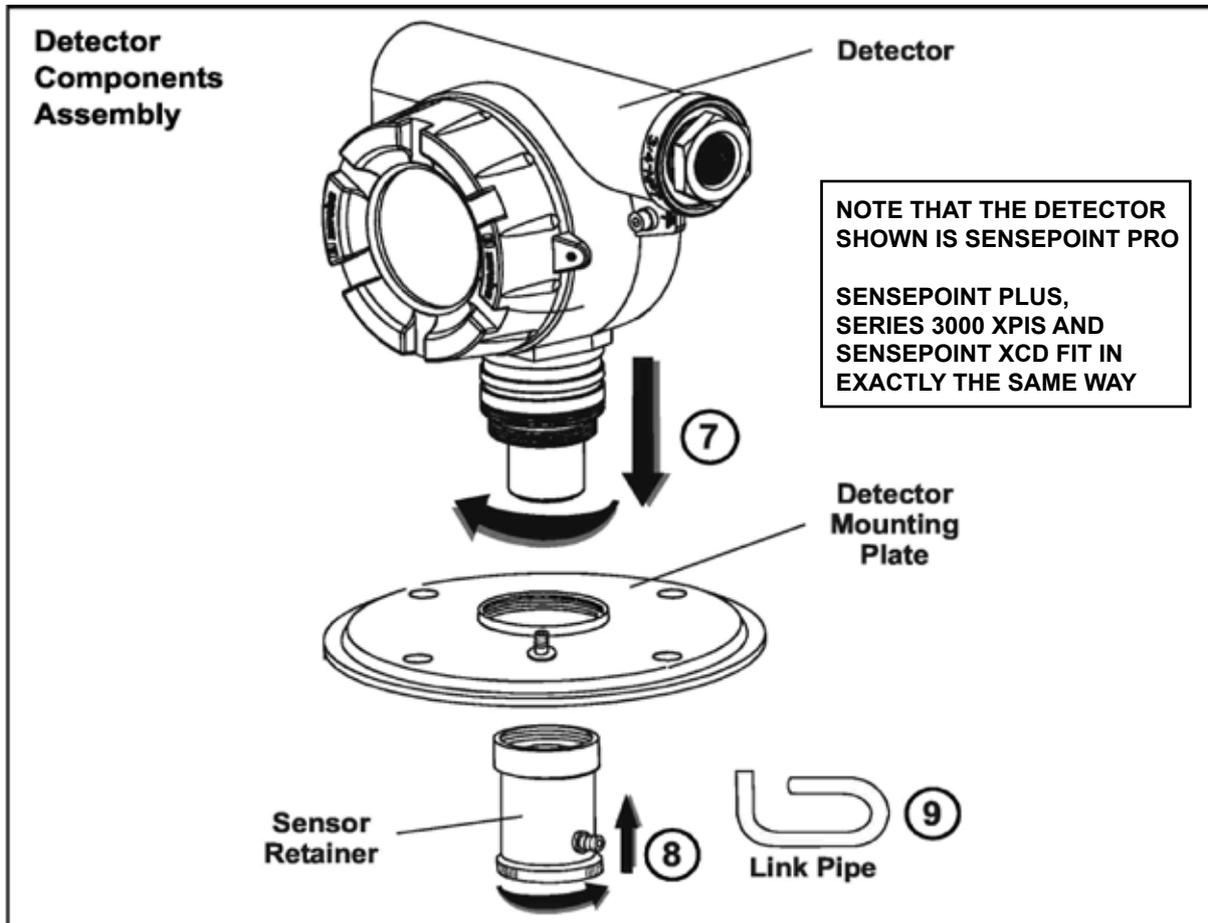
- 6 Secure the plate to the fixings using the knurled nuts.

Assembling Detector Components

1 Fit the Detector to the Mounting Plate.

Screw the detector firmly into the plate mounting hole in a clockwise direction.

2 Fit the Sensor Retainer to the Detector.



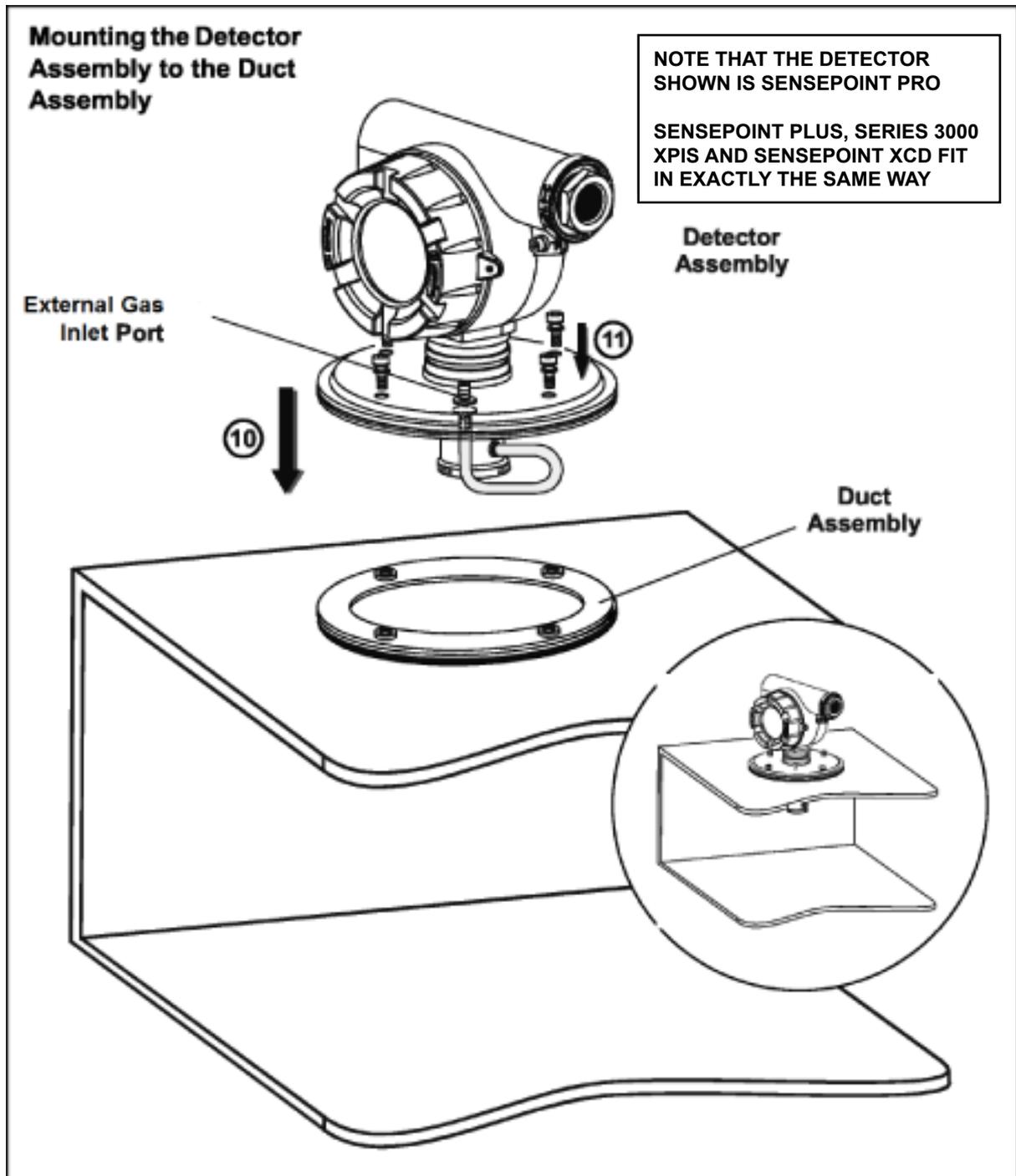
3 Fit a link pipe (5 mm ID) between the retainer port and the gas inlet port on the underside of the Mounting Plate.

Screw the retainer firmly onto the detector in a clockwise direction.

Note: Sensor retainer of duct mounting kit for Sensepoint Pro is not compatible with Series 3000 XPIS.

Mounting the Detector Assembly to the Duct Assembly

- 1 Place the Detector Assembly onto the Duct Assembly Retaining Plate fitted to the duct.



- 2 Clamp the *Detector Assembly* down.

Use the 4 x M6 hex head securing screws to firmly secure the **Detector Mounting Plate** to the **Duct Assembly**.

- 3 Cap off the external gas inlet port on the top of the Mounting Plate until needed.

Find out more

www.honeywellanalytics.com

Contact Honeywell Analytics:**Europe, Middle East, Africa, India**

Life Safety Distribution AG
Weiherallee 11a
CH-8610 Uster
Switzerland
Tel: +41 (0)44 943 4300
Fax: +41 (0)44 943 4398
gasdetection@honeywell.com

Americas

Honeywell Analytics Inc.
405 Barclay Blvd.
Lincolnshire, IL 60069
USA
Tel: +1 847 955 8200
Toll free: +1 800 538 0363
Fax: +1 847 955 8210
detectgas@honeywell.com

Asia Pacific

Honeywell Analytics Asia Pacific
#508, Kolon Science Valley (I)
187-10 Guro-Dong, Guro-Gu
Seoul, 152-050
Korea
Tel: +82 (0)2 2025 0300
Fax: +82 (0)2 2025 0329
analytics.ap@honeywell.com

Technical Services

EMEA: HAexpert@honeywell.com
US: ha.us.service@honeywell.com
AP: ha.ap.service@honeywell.com

www.honeywell.com

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