

SST O₂ Sensor Probe Types Product Information.

Which Sensor is Best Suited for Your Application - Customer Guide.



<p>Probe Type: Comes in 3 lengths: 80, 220 and 400mm. Longer probes are ideal for thick-walled flues.</p>	<p>Screw Fit: Screw Fit has an M18x1.5 nut whose position relative to the sensor tip is available in three lengths. 28, 45 and 55mm.</p>	<p>Flange Mounted: Favoured by SST's aerospace customers, and those requiring high temperature and high pressure integrity.</p>	<p>Miniature: Can be PCB mounted. Used when measuring ambient gas. (ie when the complete product is immersed in the atmosphere to be measured.)</p>
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All SST's zirconium dioxide sensors have an identical sensing cell, but SST can supply the customer with various sensor styles to integrate with our highly popular and successful O2I-FLEX interface control circuitry. The options available are shown above.

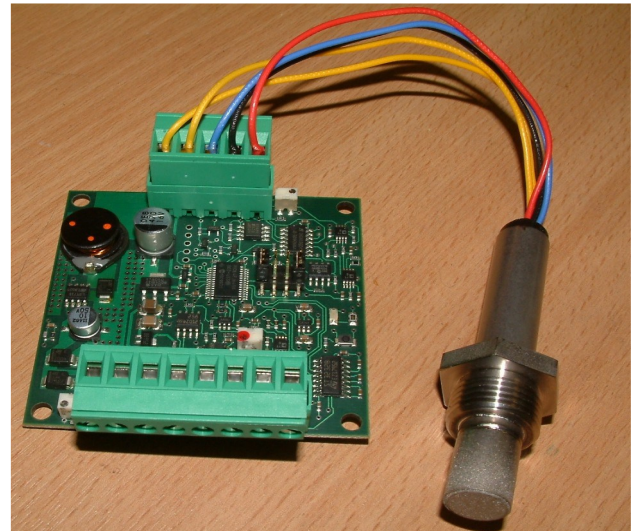
Cap type is important.

Depending on the application, a customer is often required to choose a sensor with a particular response time.

SST cater for this by offering a choice of two different filters. A fully porous cap type, which as the name suggests is fully porous allowing a response time of <4 seconds.

Also a porous lid cap type where only the top (lid) part of the sensing enclosure is porous. The response time of this variant is <15 seconds.

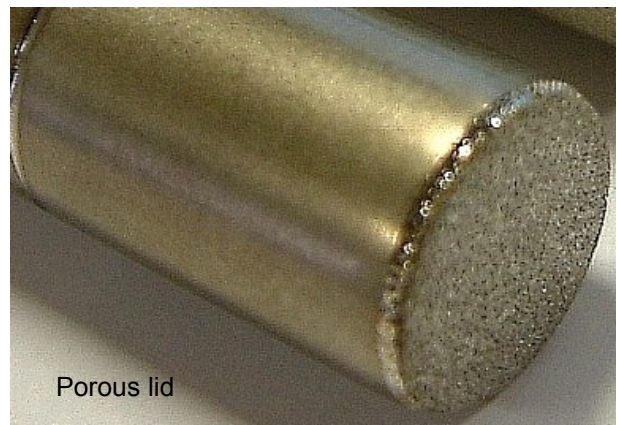
FIG 1 below shows both porous lid and fully porous cap types.



O2I-Flex connected to SST's screw fit sensor type



Fully porous cap



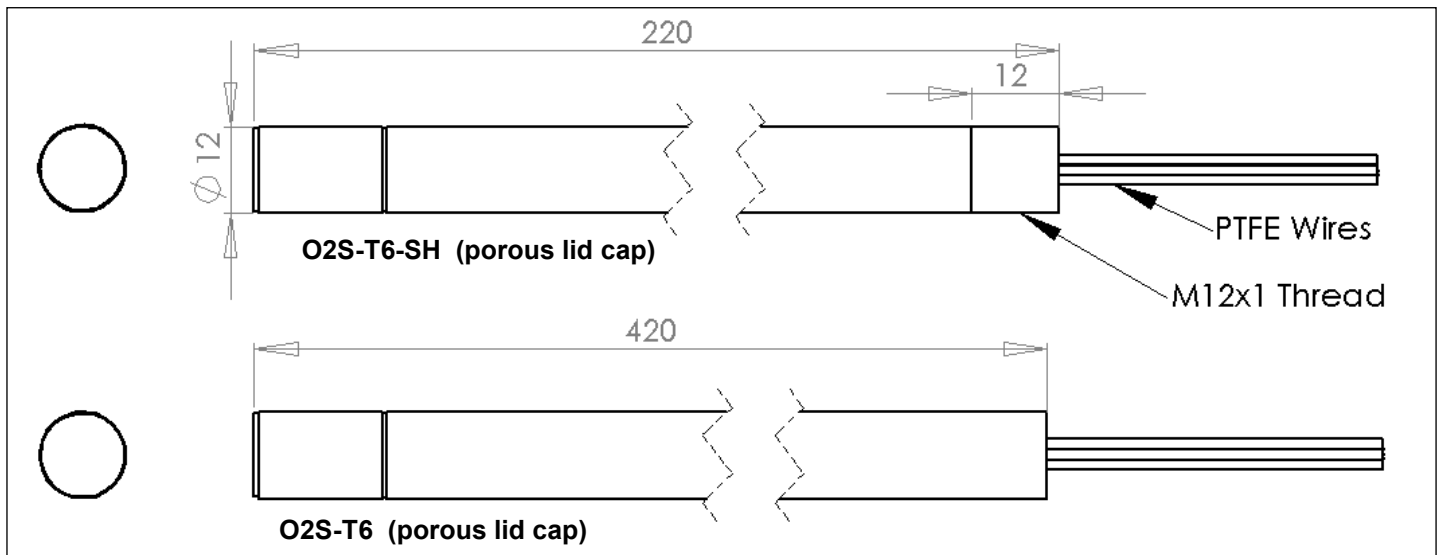
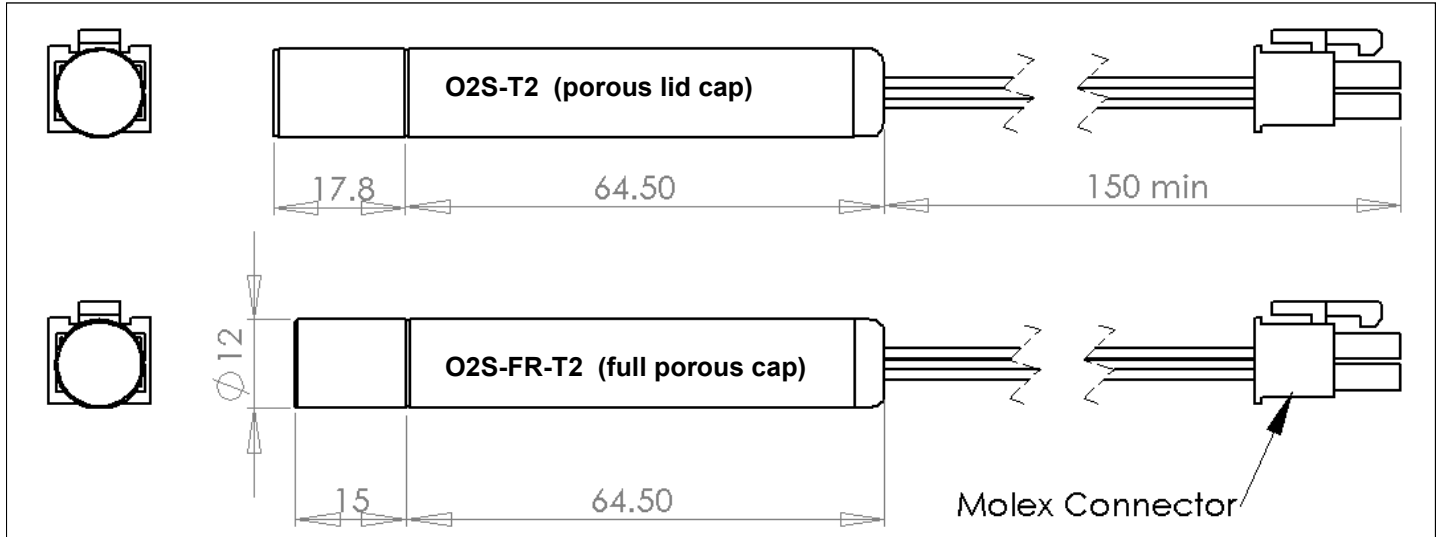
Porous lid

FIG 1

[Data Sheet Hyperlink](#)



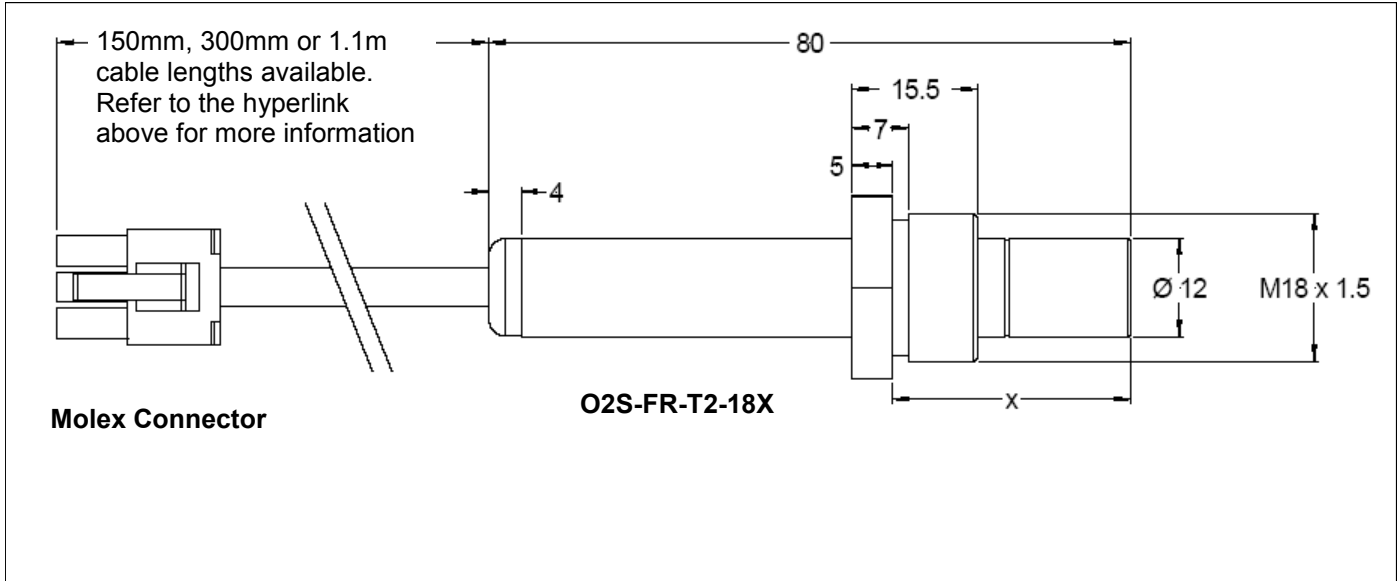
Probe type sensor



All dimensions in mm.
Sensor lengths are approximate.



Screw fit type sensor

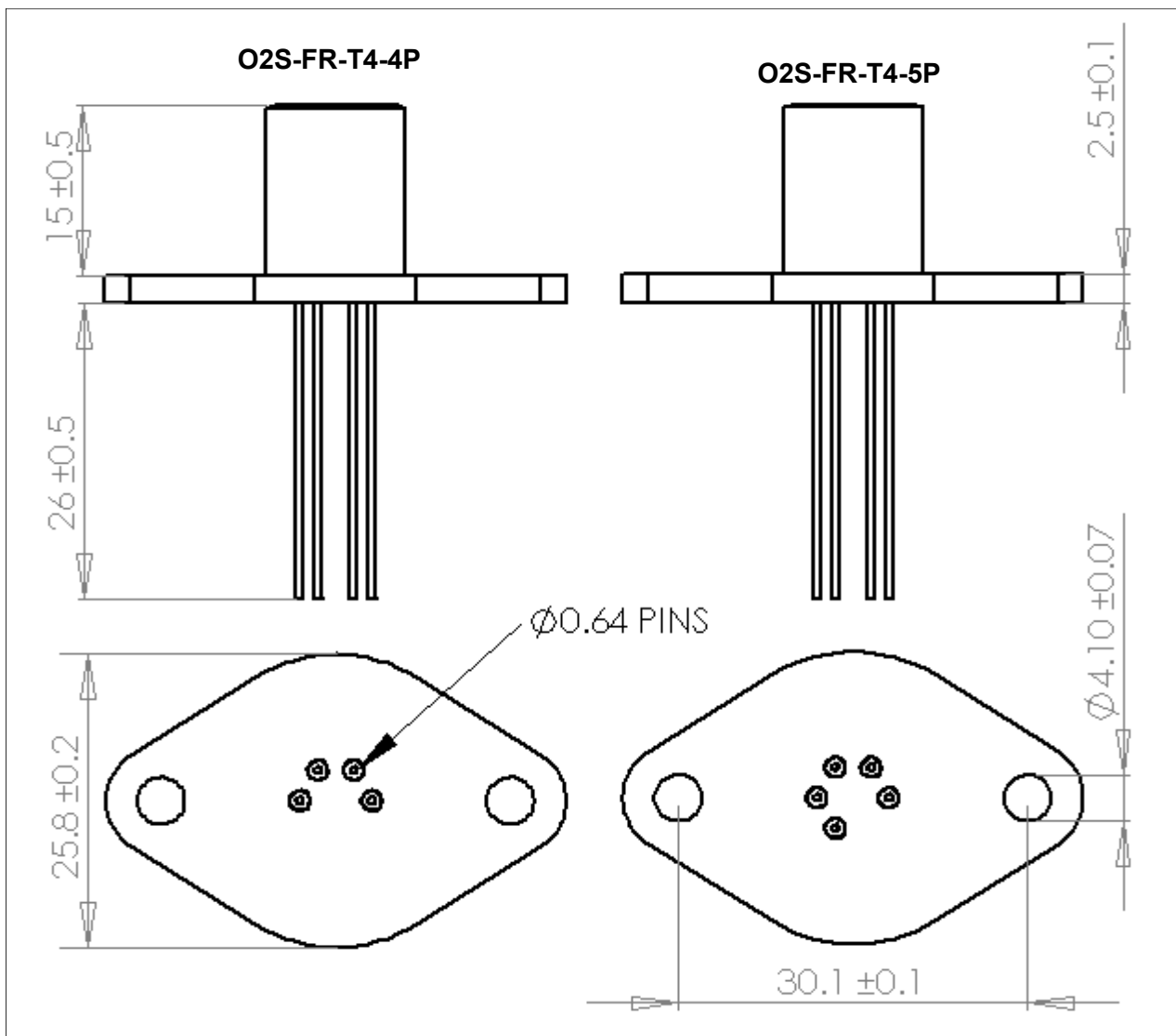


All dimensions in mm.
Sensor lengths are approximate.

X = 55mm for O2S-FR-T2-18A
X = 45mm for O2S-FR-T2-18B
X = 28mm for O2S-FR-T2-18C



Flange type sensor



All dimensions in mm

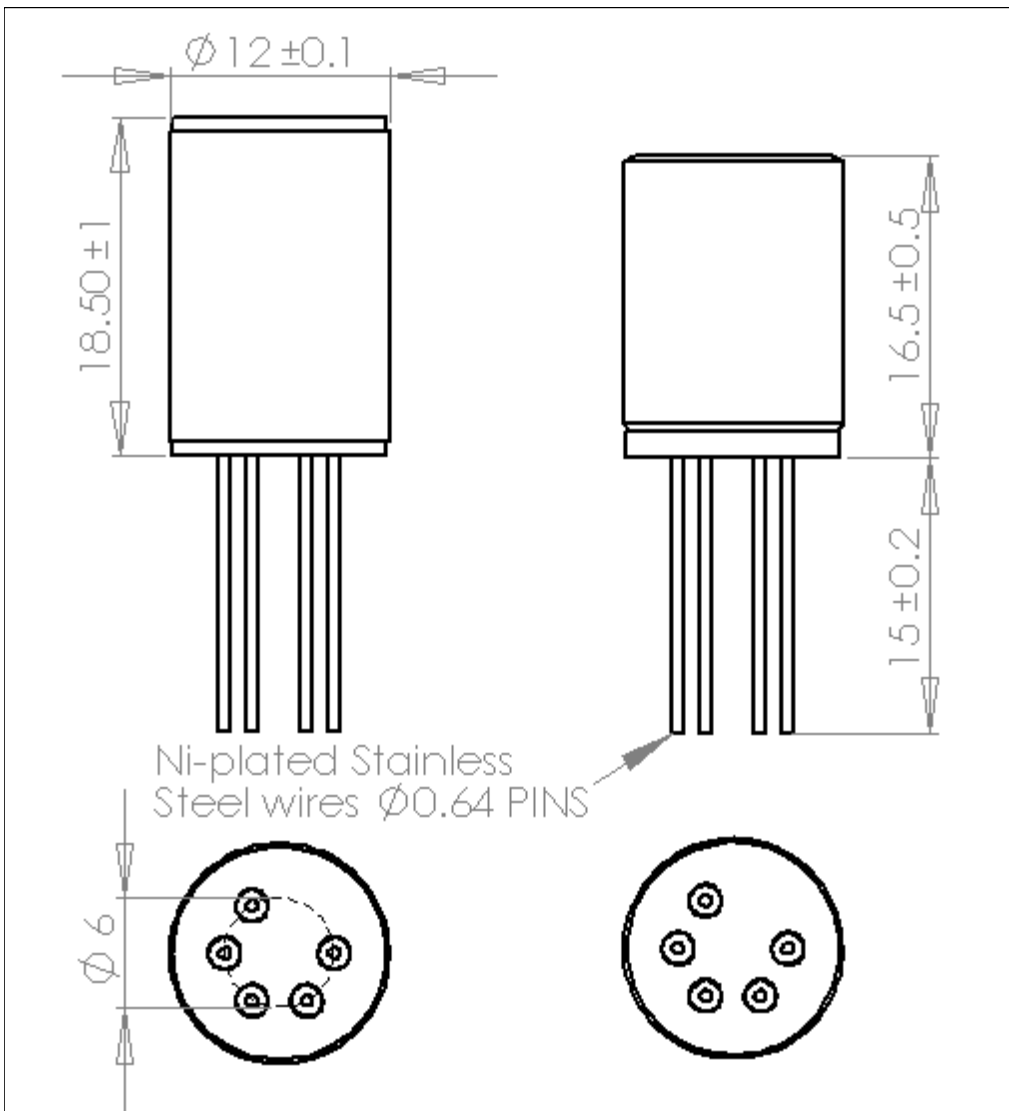
Flange type only available with Fully Porous Cap



Miniature type sensor

O2S-T3 (porous lid cap)

O2S-FR-T3 (fully porous)



All dimensions in mm

Ordering Information.

Part Number	Probe Length (mm)	Cap Type
O2S-T2	80	Porous lid cap
O2S-FR-T2	80	Fully porous cap
O2S-T6-SH	220	Porous lid cap
O2S-T6	400	Porous lid cap
O2S-FR-T2-18X ⁽¹⁾	80	Fully porous cap
O2S-FR-T4-4P	-	Fully porous cap
O2S-FR-T4-5P	-	Fully porous cap
O2S-T3	-	Porous lid cap
O2S-FR-T3	-	Fully porous cap

Notes:

1. X defines the distance from probe tip to mounting nut. Refer to page 3. The screw fit type also comes with three cable length options. 150mm, 300mm and 1.1m. Please refer to the specific data sheet linked to on page 3 for more information.

WARNING: Do Not Use The Sensor With Silicones:

SST Sensing's oxygen sensors, like all other Zirconium Dioxide sensors, are damaged by the presence of silicone.

Vapours (organic silicone compounds) of RTV rubbers and sealants are known to poison oxygen sensors and must be avoided. [See Application note 43 for full details.](#)

General Note: SST Sensing Ltd reserves the right to make changes in product specifications without notice or liability. All information is subject to SST's own data and considered accurate at time of going to print.

WARNING

All SST Sensing Ltd products are tested under nominal operating conditions during the production process. Applications for our products are varied and, as these are outside our control, specification information provided is given without legal responsibility. Customers should test under their own conditions, to ensure that the sensors are suitable for their intended application.

CAUTION

Do not exceed maximum ratings. Carefully follow all wiring instructions, incorrect wiring can cause permanent damage to the device. Do not use chemical cleaning agents.

Failure to comply with these instructions may result in product damage.