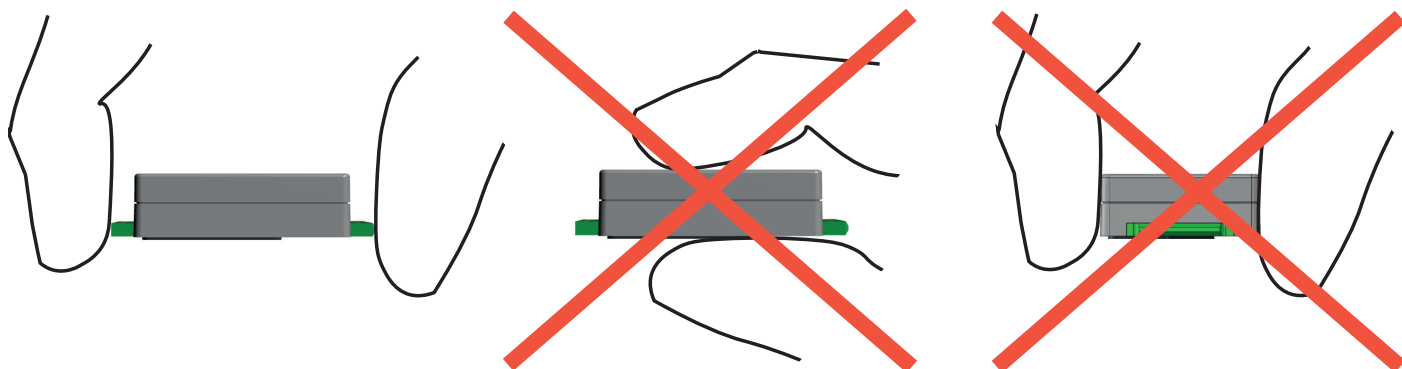


Handling Manual

S8

Miniature CO₂ sensor module with NDIR technique

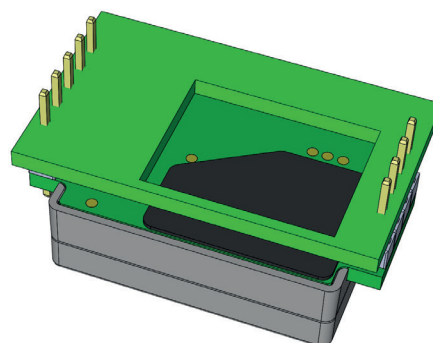
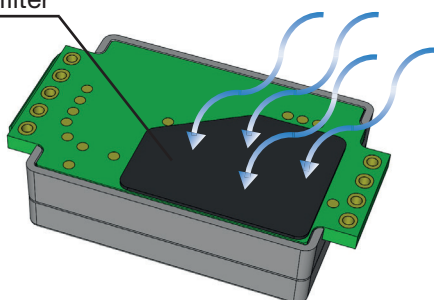


NOTE:
ESD sensitive product.
Use ESD protection equipment.



NOTE:
Handle sensor by holding PCB only.
Never touch sensor with bare hands! Use clean gloves to avoid dust, grease or other contaminations.
OBA shall not be subjected to any force.

Particle filter



NOTE:
To ensure airflow, and quick sensor response time to changes in environment: do not block particle filter!

Installation and soldering

See IPC-J-STD-001 for acceptable soldering conditions in general.

Selective soldering machine (drag soldering method): soldering temperature 295°C during three seconds.

Hand soldering: soldering iron temperature 380°C during two seconds/pin.

Mechanical properties

Please refer to mechanical drawing of detailed specification regarding dimensions and tolerances.

Layout considerations:

Use cut-outs or slits in main board to reduce mechanical stress to sensor due to board thermal expansion.

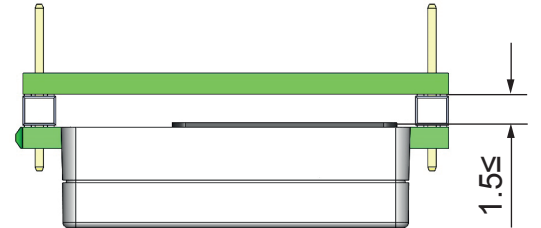
To ensure stability, do install pin headers on both sides of sensor.



NOTE:
No gluing or moulding on OBA.



[mm]



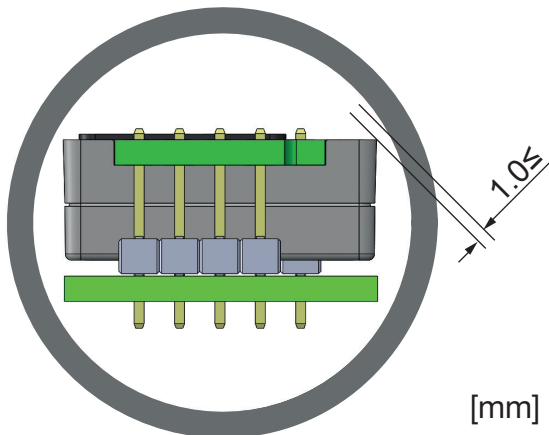
[mm]



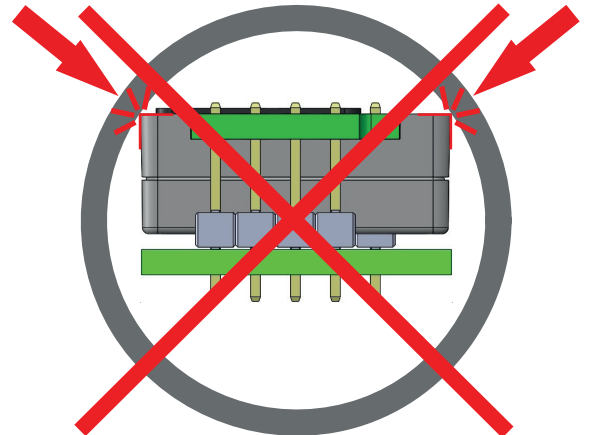
NOTE:
 $1.0\text{mm} \leq$ minimum distance
from OBA to cover/PCB.



NOTE:
 $1.5\text{mm} \leq$ minimum distance
from particle filter to cover/PCB.



[mm]



NOTE:
 $1.0\text{mm} \leq$ minimum distance
from OBA to cover/PCB.

Storage

Storage in sealed ESD bags.

Storage temperature: $-40 - 70^{\circ}\text{C}$

Requirements on storage environment: in normal IAQ environments corrosive environments are excluded.

Inspection - verification

Transport, handling or assembly may affect calibration.

A host system counts ABC (Automatic Baseline Correction) period itself and has to write ABC command to the "Calculation Control byte" when ABC period (eight days) expires. Contact Senseair for further information!

Inspect and perform zero calibration after transport.