

# Glass-free absorption sensor OUSAF11

## NIR/VIS absorption sensor for phase detection and suspended solids



More information and current pricing:

[www.ch.endress.com/OUSAF11](http://www.ch.endress.com/OUSAF11)

### Benefits:

- Highest safety for your products thanks to glass-free, hygienic design
- Cost savings and reduced product loss thanks to fast interphase detection
- Low-maintenance sensor with long service life and stable operation
- Flexible installation: Sensor features insertion (with Triclamp and Varivent connection) and immersion (with holder and assembly system Flexdip CYA112 and CYH112)
- Robust sensor resists aggressive chemicals and fouling
- Suitable for cleaning-in-place (CIP) and sterilization-in-place (SIP)
- FDA and 3-A approval

### Specs at a glance

- **Measurement range** 0 to 3 AU 0 to 6 OD (depending on optical path length)
- **Process temperature** 0 to 90 °C (32 to 194 °F) continuous Max. 130 °C (266 °F) for 2 hours
- **Process pressure** Max. 10 bar abs at 20 °C (Max. 150 psi at 68 °F)

**Field of application:** OUSAF11 is a glass-free sensor for the inline detection of changing phases and suspended solids. Insert it in pipes and vessels to minimize product losses and to ensure the purity of your products. You may also apply it as an immersion sensor in open tanks and basins for efficient effluent monitoring. Its glass-free, hygienic design guarantees the highest safety of your products. OUSAF11 withstands high operating temperatures and aggressive media, making it suitable for all industries.

### Features and specifications

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## Concentration

**Measuring principle**

NIR absorbance

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**Application**

Suspended solids measurement, product interface detection, milk detection, produkt loss detection

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**Characteristic**

VIS/NIR absorption

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**Measurement range**

0 to 3 AU

0 to 6 OD (depending on optical path length)

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**Design**

Glassfree, hygienic sensor

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**Material**

Sensor head: FEP

Sensor body: stainless steel 316L

O-Ring: EPDM

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**Process temperature**

0 to 90 °C (32 to 194 °F) continuous

Max. 130 °C (266 °F) for 2 hours

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**Process pressure**

Max. 10 bar abs at 20 °C

(Max. 150 psi at 68 °F)

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**Connection**

Thread G1

NPT 1" thread

Tri-Clamp 2"/2.5"/3"

VARIVENT N DN40-125

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**Ingres protection**

IP 67

IP 68 when mounted with CYH112

Concentration

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**Additional certifications**

FDA, 3-A

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