



SENSORS &  
CONTROLLERS



ANALYZERS  
& SAMPLERS



LEVEL, FLOW  
& PRESSURE



WEB APP &  
DATA LOGGING



ACCESSORIES

# S461 TN DATASHEET

## INFRARED TURBIDITY SENSOR



### MAIN FEATURES

- Reliable concentration measurement using optical measuring process
- Infrared light pulsing beams scattering method
- AISI 316 and black rigid PVC sensor body (optional only AISI 316 or only PVC)
- No mechanically moving parts
- Measured value pre-processing in sensor resulting in low signal transmission sensitivity
- Immediate installation and easy maintenance

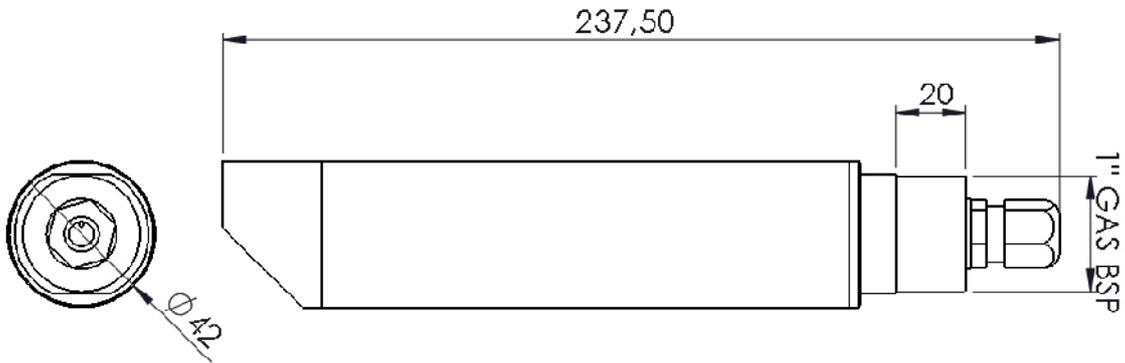
### APPLICATIONS

- Measure of turbidity in pure and drinkable water
- Measure of turbidity in primary, industrial, recirculating water

## TECHNICAL DATA

Materials	<ul style="list-style-type: none"> <li>• Black PVC and AISI 316 Body</li> <li>• Special Glass Optics with oleophobic treatment</li> <li>• NBR and Silicon OR</li> </ul>
Thread	1" GAS
Measuring ranges	0-1000 NTU, 0-4000 NTU
Measuring method	90° Scattered light
Calibration method	1-point for scale with formazin standard solution
Resolution	<ul style="list-style-type: none"> <li>- 0.01 NTU range 0-1000 NTU</li> <li>- 0.01 NTU range 0-4000 NTU</li> </ul>
Accuracy	<ul style="list-style-type: none"> <li>- ±2% at the measuring point range 0-1000 NTU</li> <li>- ±5% at the measuring point range 0-4000 NTU</li> </ul>
Repeatability	<ul style="list-style-type: none"> <li>- ±5 NTU range 0-1000 NTU</li> <li>- ±20 NTU range 0-4000 NTU</li> </ul>
Response	$T_{90} < 60s$
Working temperature	0÷40 °C
Max working pressure	4 bar
Max absorption	3W
Mechanical protection	IP68 Sensor+cable
Cable	10m integral
Power supply	12...24Vdc
Outputs	RS485 (4-20mA optional)

## DIMENSIONS



## ORDER CODES

9711070063	S461TN AISI316 / PVC Turbidity probe 4-20mA output 0-1000NTU
9711071063	S461TN AISI316 / PVC Turbidity probe 4-20mA output 0-4000NTU
9711072063	S461TN AISI316 / PVC Turbidity probe RS485 output
9711076063	S461TN/INS AISI316 / PVC Insertion Turbidity probe 4-20mA output 0-1000NTU
9711077063	S461TN/INS AISI316 / PVC Insertion Turbidity probe 4-20mA output 0-4000NTU
9711078063	S461TN/INS AISI316 / PVC Insertion Turbidity probe RS485 output
971107A063	S461TN/SS AISI316 Turbidity probe RS485 output
971107B063	S461TN/INS/SS AISI316 Insertion Turbidity probe RS485 output