



SENSORS &  
CONTROLLERS



ANALYZERS  
& SAMPLERS



LEVEL, FLOW  
& PRESSURE



WEB APP &  
DATALOGGING



ACCESSORIES

# S461 LT DATASHEET

## INFRARED TURBIDITY SENSOR



### MAIN FEATURES

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

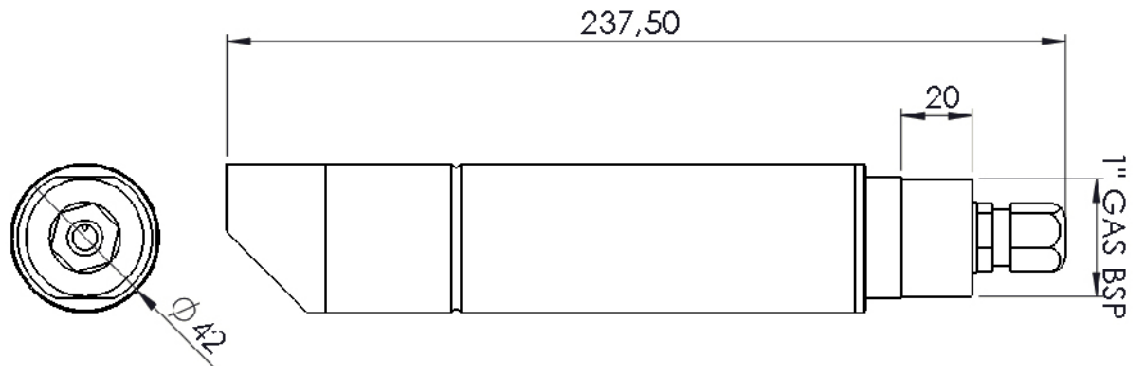
### APPLICATIONS

- 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 Body</li> <li>• Special Glass Optics with oleophobic treatment</li> <li>• Viton and Silicone OR</li> </ul>
Thread	1" GAS
Measuring ranges	<ul style="list-style-type: none"> <li>- 0-10NTU</li> <li>- 0-100NTU</li> </ul>
Measuring method	90° Scattered light
Calibration method	1-point and/or 2-point for scale
Resolution	<ul style="list-style-type: none"> <li>- 0,01 NTU range_0-10NTU (0.001NTU up to 9,999NTU)</li> <li>- 0,1 NTU range_0-100NTU</li> </ul>
Accuracy	<ul style="list-style-type: none"> <li>- ±1% at the measuring point range_0-10 NTU</li> <li>- ±2% at the measuring point range_0-50 NTU</li> <li>- ±5% at the measuring point range_0-100 NTU</li> </ul>
Repeatability	<ul style="list-style-type: none"> <li>- ±0.05 NTU f.s 10NTU</li> <li>- ±0.5 NTU f.s 100NTU</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

9701072063	S461LT PVC Turbidity Probe with RS485 output
9701075063	S461LT PVC Turbidity Probe with RS485 output PSS8 version
9701078063	S461LT/INS AISI316/PVC Turbidity Probe AISI 316 & PVC RS485 insertion style
9701079063	S461LT PVC Turbidity Probe with RS485 output 0,2-5NTU
970107B063	S461LT/INS/SS Turbidity Probe AISI 316 RS485 insertion style