

AST L 10

Highly Accurate & Small Infrared
Non-contact Sensor
CE 0°C.....400°C

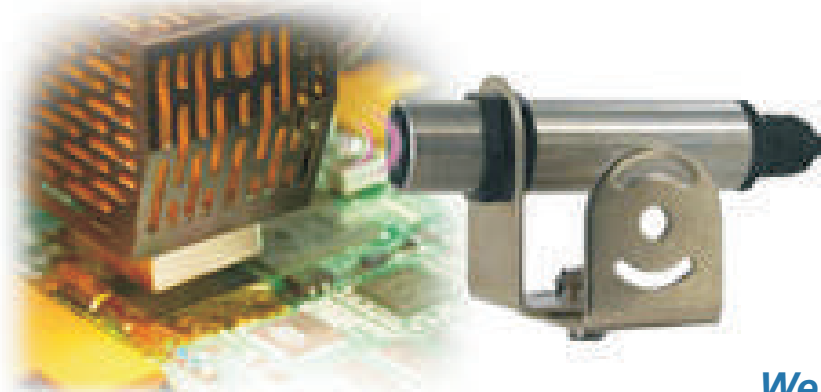
AST L 10 is a highly accurate stationary pyrometer. This device is used for non-contact temperature measurement of non metallic surfaces or painted, coated or anodized metals. The small housing dimensions enable the integration of the instruments in compact production machines; the solid and robust design of the instrument guarantees reliability even in the rough industrial environments. With The built-in air purge the lens can be protected from contamination with dust and moisture. This enables the instrument to be adapted to various measuring tasks.



- ❖ Small and robust infrared temperature sensor
- ❖ 2 wire installation
- ❖ Small spot size
- ❖ Fast response time
- ❖ Easy electrical and mechanical installation
- ❖ Linear current output
- ❖ IP65 splash proof

Application

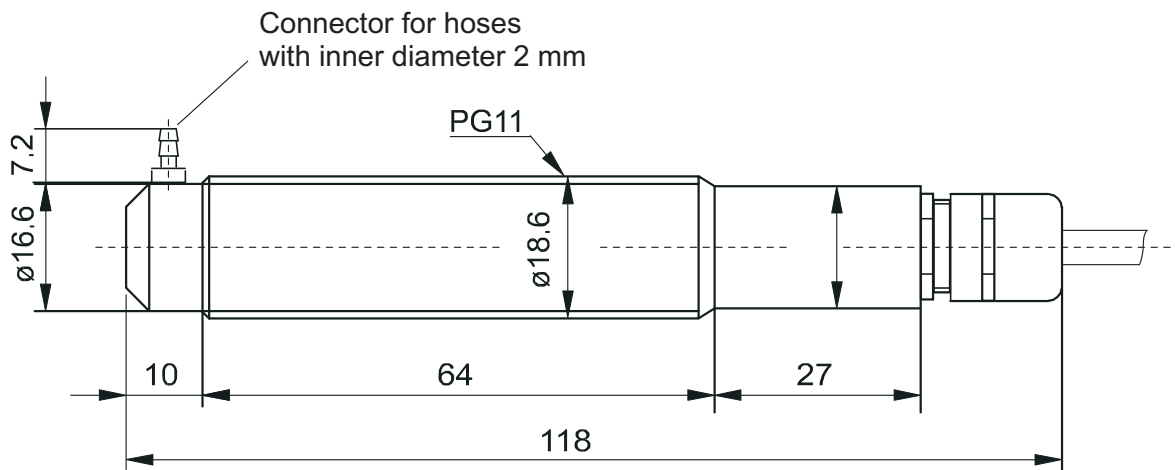
- ★ Plastic
- ★ Textile
- ★ Ceramic
- ★ Liquids
- ★ Painted metals
- ★ Coated metals
- ★ Anodized metals
- ★ Crystal growing



*We Measure Temperature Accurately
even in extreme Conditions*

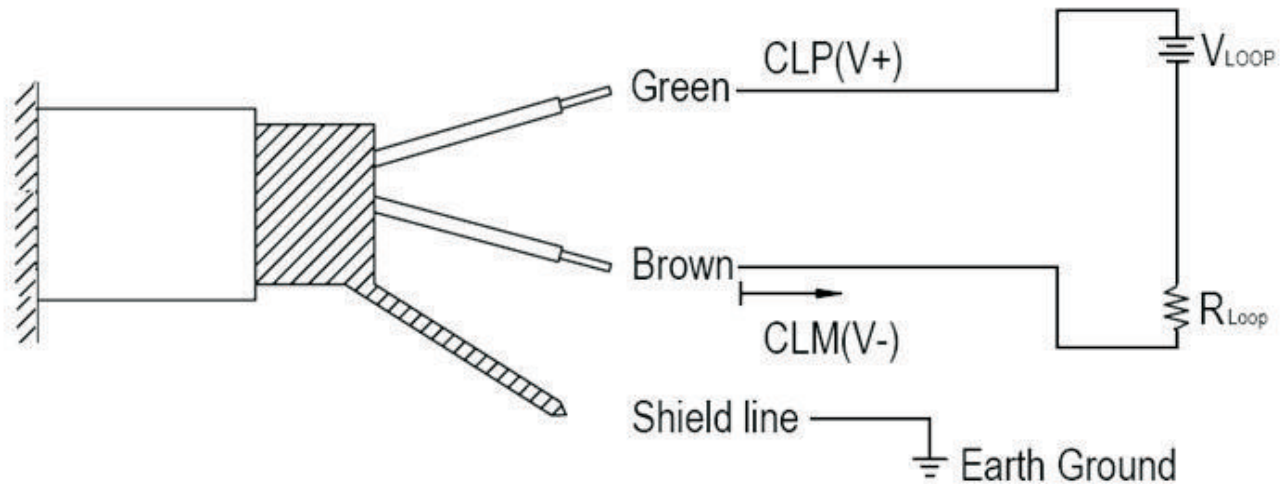
TECHNICAL SPECIFICATION:-

Model	AST L 10
Measured Temperatures Range	0°.....400 °C
Emissivity Range	0.95 Fixed
Storage Temperature	-30.....85°C
Spectral Range, μm	8.....14 μm
Photodetector Type	Thermopile
Response Time	300ms
Accuracy & Repeatability	$\pm 2\%$ of Temperature reading or 1°C
Distance to Spot size Ratio	12:1
Analog Output	4.....20mA : linear to temperature
Digital Output	Serial communication : RS 232 or RS 485 Isolated
Power	24 V DC
Protection glass	IP65
Operating temperature range	0 °C...+50 °C
Ambient Temperature	0 °C ~70 °C
Storage Temperature	-3085°C
Weight	200 g



Wiring connection:-

The following diagram and table show the proper wiring connections. Each wire is numbered with the number and relative colour. Please follow the function guide when connect the wire.



Wiring configuration:-

Wire No	Wire colour	Label	Function
1	Green	CLP	Current loop plus (V+)
2	Brown	CLM	Current loop minus (V -)
3	Bare	-	Shield ground

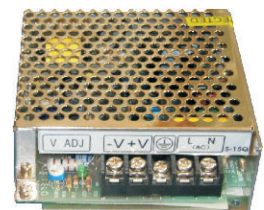
ACCESSORIES:-



Mounting Angle Adjustable



Temperature Indicator
Input 4...20mA, Range selectable, display size 48 x 96mm



Power supply unit
Input 110/230V AC
output 24 V DC