TEMPERATURE SENSOR

AST 60 Series

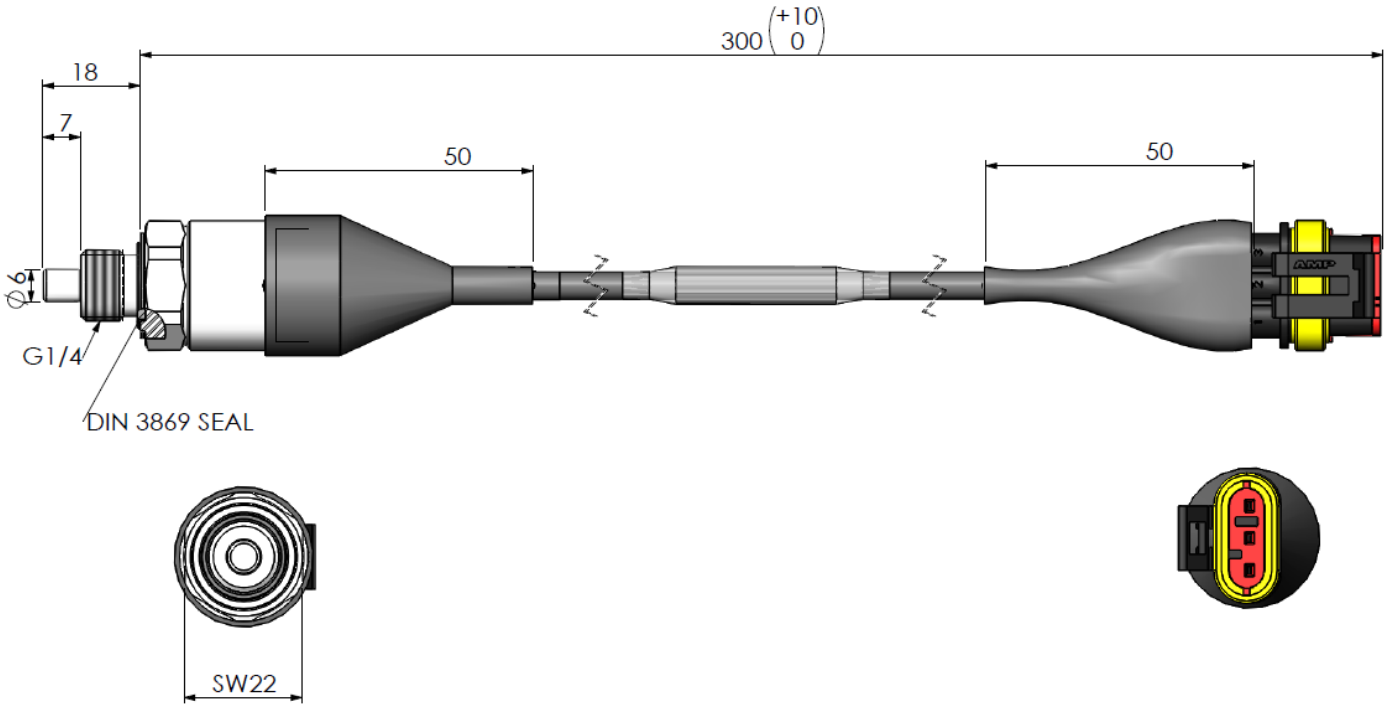
"-50… +150 °C Measuring Range, 0,25-4,75V Ratiometric Output"

- -50 … +150 °C measuring range
- 0,25-4,75V ratiometric output
- AMP connector conforming to automotive standard
- G1/4 process connection (optional others)
- IP67 protection class
- Easy installation and use

AST 60 series temperature sensors are designed for precise temperature measurement in the range of -50 to +150°C in mobile hydraulic applications.

The detection principle is based on the change of the electrical resistance of the conductor depending on temperature. Temperature is determined by measuring the increasing or decreasing values of the resistance depending on the temperature. The resistance signal coming from the RTD element is converted into a 0.25-4.75V analog output signal and integrated into automation systems.

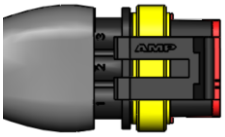
MECHANICAL DIMENSIONS (mm)

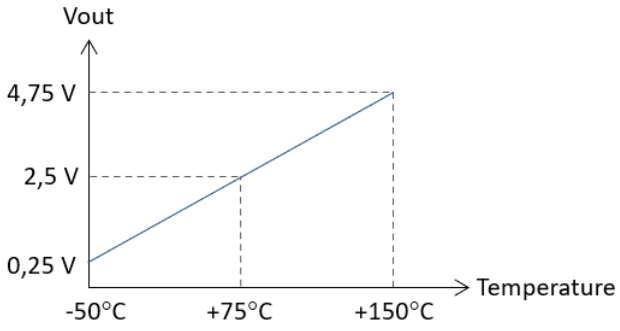


TECHNICAL SPECIFICATIONS

Measurement sensor	PT100 (Class B EN60751)	
Measuring range	-50 … +150 °C	
Output	0,25V-4,75VDC Ratiometric	
	Zero	0,25 VDC
	Span	4,75 VDC
	Ratiometricity	%1
	Linearity	%1 FS
Supply voltage	5V±0.5 VDC max	
Current consumption	5mA, max 7.5mA	
Overload protection	Yes	
Electrical connection	AMP 3 pin superseal connector	
Process connection	G1/4	
Body material	304 stainless steel	
Protection class	IP67	

ELECTRICAL CONNECTION

 SIGNAL	 PIN NO
GND	1
Output Signal	2
+V	3



ORDER CODE

1-Model
AST 60

2- Temperature Range
Selectable from -50 to +150 °C

3- Immersion Length
018: 18mm (Ask for other options)

4- Immersion Pipe Diameter
6: 6 mm (Ask for other options)

5- Pressure Type
D: Low Pressure (For pressures up to 0…200 bar)

6- Sensor Type
PT100

7- Output Signal
V45: 0,25…4,75V Ratiometic

8- Process Connection
G1/4 (Ask for other options)

9- Cable Length
0.3M : 0.3meters (Ask for other options)

10- Connector Type
S65 : AMP 3 pin superseal connector (Ask for other options)

11- Body Material
E304 : 304 Stainless Steel (Ask for other options)

Sample Order Code: AST60 -50...+150 018 6D PT100 V45 G1/4 0.3M S65 E304