

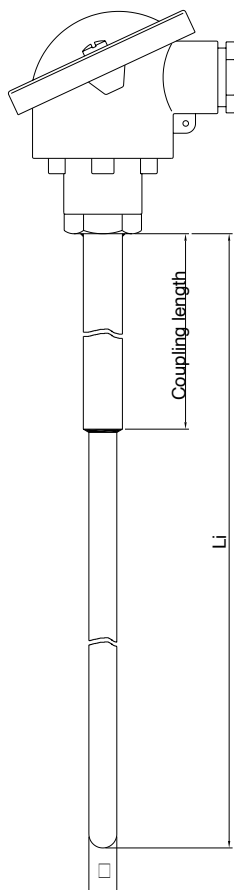


Main features

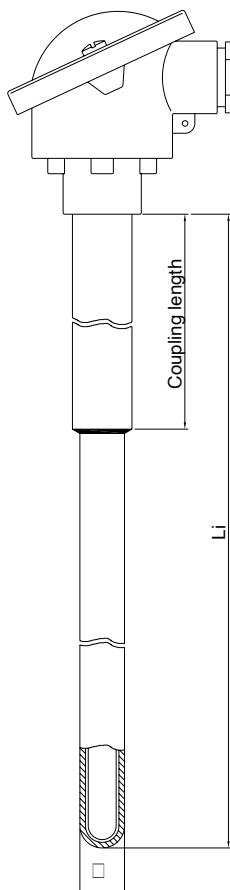
- Amplified output signal
- Temperature limits:
 - 40 ... + 1200° C for type K
 - 0 ... + 1400° C for type S - R
 - +600 ... + 1600° C for type B
 - (see table for sheath diameters)
- Valid reference tolerances for the sensing element only: (IEC standard 584.2/Class 1):
 - for type K: $\pm 2.5^{\circ} \text{C}$ (- 40 ... + 333° C)
 $\pm 0.0075 \times [t]$ ($t > + 333^{\circ} \text{C}$)
 - for type S, R, $\pm 1^{\circ} \text{C}$ 0...+1100
 $\pm [1+0,003 \times (t - 1100)]^{\circ} \text{C} + 1100...+1600^{\circ} \text{C}$
 - for type B: +600° C ... + 1700° C
 $\pm 0.0025 \times [t]$
- Ceramic insulation of the thermocouple element
- Application versatility

MODELS

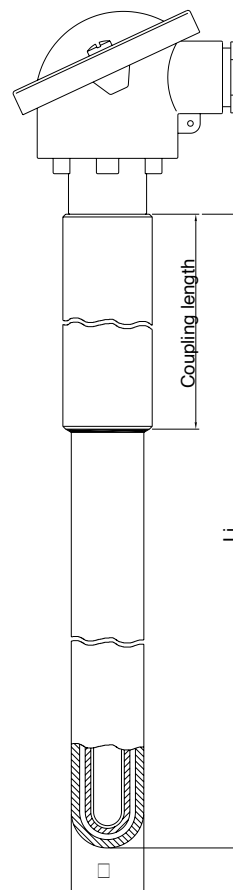
AC9 A
with single sheath



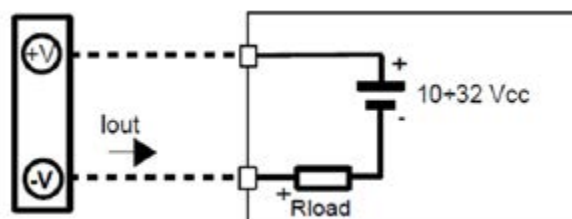
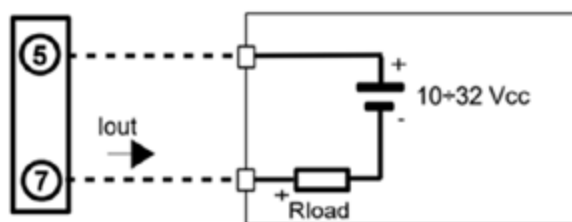
AC9 B
with double sheath



AC9 C
with triple sheath



CONVERTER TECHNICAL SPECIFICATIONS



Power supply

Power supply voltage 12 .. 30 Vdc
Reverse polarity protection 60 Vdc max

Linearity (*)

TC $\pm 0,2$ % f.s.
RTD $\pm 0,1$ % f.s.
(*) referred to input Span (difference between max. and min. values)

Temperature and Humidity

Operative temperature $-40^{\circ}\text{C} \dots +85^{\circ}\text{C}$
Storage temperature $-40^{\circ}\text{C} \dots +85^{\circ}\text{C}$
Humidity (not condensed) 0 .. 90 %

Load characteristic - Rload

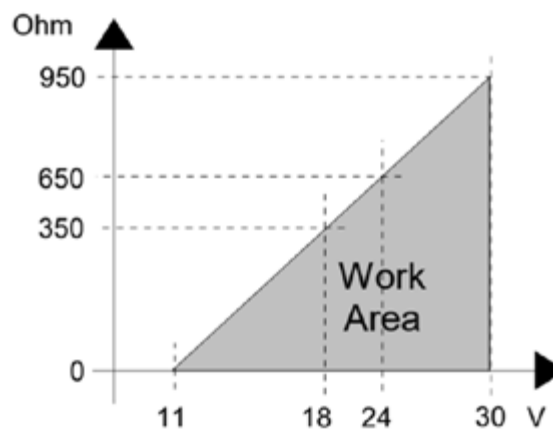
(maximum load value on current
loop per power supply value)

Output type (current)

Min 4mA
Max 20mA

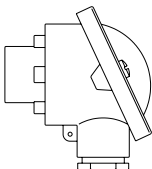
Thermal drift

Full scale $\pm 0,01\%$ / $^{\circ}\text{C}$
CJC $\pm 0,01\%$ / $^{\circ}\text{C}$

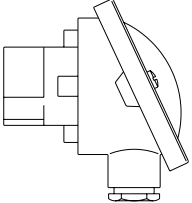


ORDER CODE

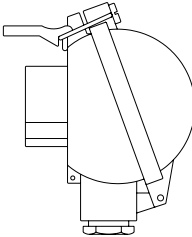
CODE		0 0 0 X		X		A	
Model (*) With single sheath A With double sheath B With triple sheath C		Certificates A Conformity Report R Calibration Report T SIT Certificate		LENGTHS AND ACCESSORIES Type of Transmitter A 4 ÷ 20mA		Li = Immersion Length (mm) Standard length from 200 to 2000mm with 50mm step	
Element + Hot Junction Single Insulated 1 Double Insulated 3		Coupling Length (mm) Standard lengths 70mm for sheaths from 100 to 350mm 100mm for sheaths from 400 to 650mm 200mm for sheaths superior to 650mm		Temperature range in which the calibration has to be made T. min T. max °C °C 4mA 20mA			
Thermocouple Type Ni/Cr - Ni/Al K Pt 10% Rh - Pt S Pt 30% Rh - Pt 6% Rh B Pt 13% Rh - Pt R							
Connection Head DIN B C DIN A D DIN BUS E DIN BUZ H I *							
(*) To be used for double element							
Sheath Material KER 530 - Sillimantini I * KER 610 - Pytagoras L KER 710 - Al203 99.7% M							
(*) Available for ext. Ø 26mm for B and C models only							
Sheath Diameter (mm) 10 K 16 O 26 S							
Int. Sheath Material (*) KER 610 - Pytagoras L KER 710 - Al203 99.7% M							
(*) Available for B and C models only "0" = no sheath							
Intermediate Sheath Material (*) KER 610 - Pytagoras L KER 710 - Al203 99.7% M							
(*) Available for B and C models only "0" = no sheath							
TC Wire ø (*) 0.35 A 0.5 B							
(*) Option for thermocouples with S, B, R element only							



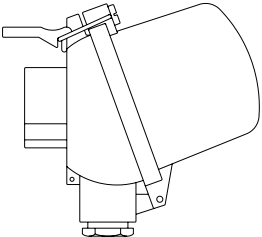
C



D



E



I

Sensors amplifiers are manufactured in compliance with:

- EMC 2004/108/CE compatibility directive
- RoHS 2002/95/CE directive

Electrical installation requirements and Conformity certificate are available on our web site: www.gefran.com

GEFRAN spa reserves the right to make any kind of design or functional modification at any moment without prior notice

GEFRAN

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