



Main features

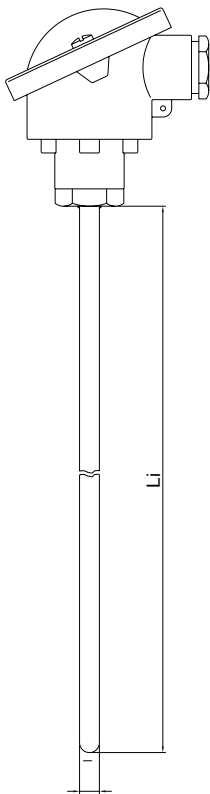
- Temperature limits:
 - 40 ... + 350° C for type T
 - 40 ... + 750° C for type J
 - 40 ... + 900° C for type E
 - 40 ... + 1000° C for type K
 (see table for sheath diameters)
- Valid reference tolerances for the sensing element only:

Norme IEC 584.2 class 2:

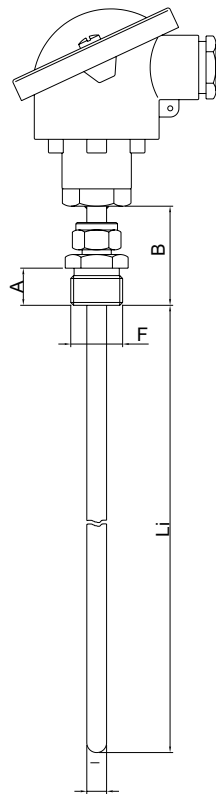
for type T:	$\pm 1^{\circ} C$	(- 40 ... + 133° C)
	$\pm 0.0075 [t]$	(t > + 133° C)
for type J, E, K:	$\pm 2.5^{\circ} C$	(- 40 ... + 333° C)
	$\pm 0.0075 [t]$	(t > + 333° C)
- Ceramic insulation of the thermocouple element
- Application versatility

MODELS

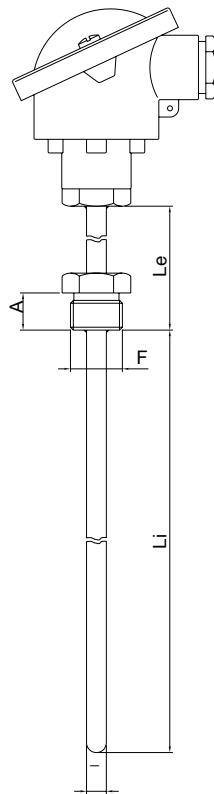
AC6 A
without fitting



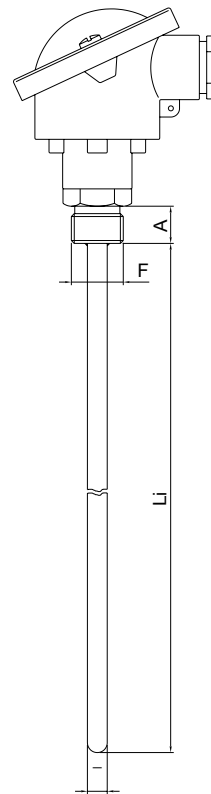
AC6 B
with adjustable
compression fitting



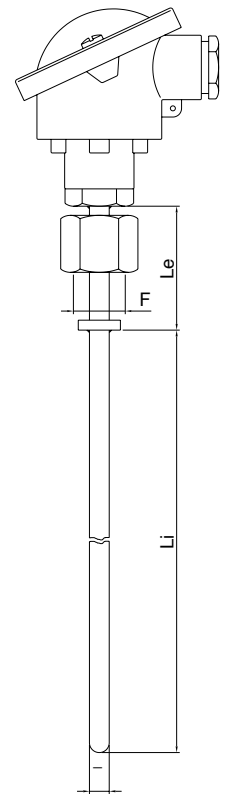
AC6 C
with welded fitting

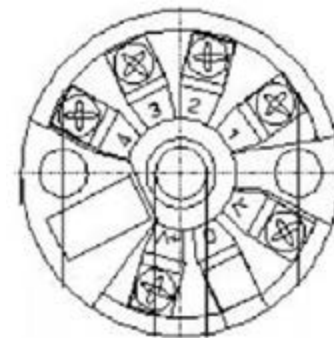
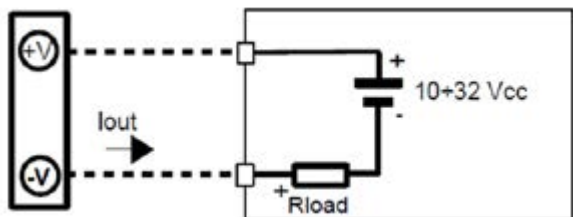
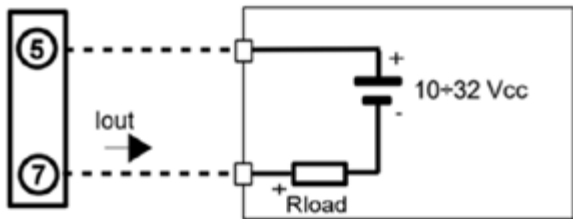


AC6 D
with welded fitting
under the head



AC6 E
with female fitting and
welded ring





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

Load characteristic - Rload

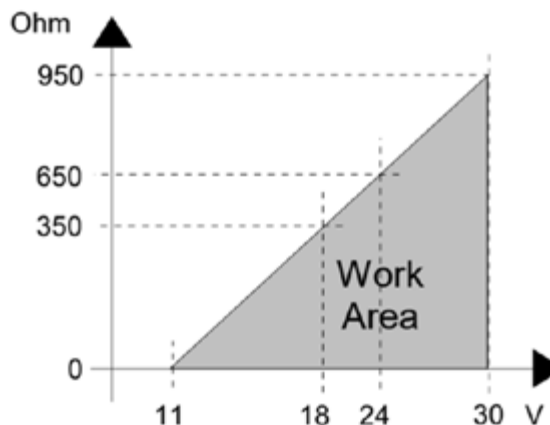
(maximum load value on current loop per power supply value)

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

A C 6 | | | | | | | | | | 0 | 0 0 0 X | | | | X | | | | | | A |

CODE

Model	
Without fitting	A
With adjustable compression fitting	B
With welded fitting	C
With welded fitting under the head	D
With female fitting and welded ring	E
	*

(*) Available just with: 1/2" GAS thread

Element + Hot Junction	
Single Insulated	1
Single Grounded	2

Thermocouple Type	
Fe - Cu/Ni	J
Ni/Cr - Ni/Al	K
Cu - Cu/Ni	T
Ni/Cr - Cu/Ni	E

Connection Head	
DIN B	C
DIN BUS	E
EEX d IIC 2GD	F
CEAA	H

(*) Not available for double element

Sheath Material	
AISI 304	A
AISI 310	B
AISI 316	C
INCONEL 600	F

Sheath Diameter (mm)	
5	H
6	I
8	J
10	K
12	L

Connection Thread *		
1/8" GAS	"A" = 10mm	A
1/4" GAS	"A" = 12mm	B
3/8" GAS	"A" = 15mm	C
1/2" GAS	"A" = 15mm	D
1/8" NPT		G
1/4" NPT		H
3/8" NPT		I
1/2" NPT		J

(*) To be shown for B, C, D, E models only

Connection Material *		
Nickel-Plated Brass	1	**
Inox serie 300	2	

(*) To be shown for B, C, D, E models only

(**) Available for AC6B model only

Sensors amplifiers are manufactured in compliance with:

- EMC 2014/30/EU compatibility directive
- RoHS 2011/65/EU directive

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

Certificates	
A	Conformity Report

LENGTHS AND ACCESSORIES

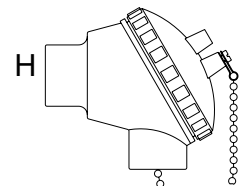
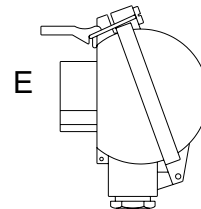
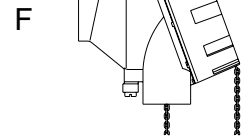
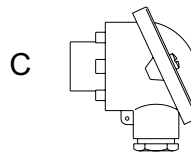
Type of Transmitter	
A	4 ÷ 20mA

Li = Immers. Length (mm)	
Standard Length from 50 to 1000mm with 50mm step	

Le = Extension Length (mm) *	
Standard Length from 35 to 200mm with 10mm step	

(*) To be shown for AC6C and AC6E models

Temperature range in which the calibration has to be made			
T. min		T. max	
<input type="text"/>	°C	<input type="text"/>	°C
<input type="text"/>	4mA	<input type="text"/>	20mA



Availability of Mounts /Sheathing Diameter

MOUNT(F)	ø5	ø6	ø8	ø10	ø12
G 1/8	x	x	-	-	-
G 1/4	x	x	x	-	-
G 3/8	x	x	x	x	-
G 1/2	x	x	x	x	x
1/8 NPT	x	x	-	-	-
1/4 NPT	x	x	x	-	-
3/8 NPT	x	x	x	x	-
1/2 NPT	x	x	x	x	x

MOUNT (F)	Mod. B		Mod. C and D
	A (mm)	B (mm)	A (mm)
G 1/8	10	35	10
G 1/4	12	35	12
G 3/8	15	40	15
G 1/2	15	40	15
1/8 NPT	11	35	11
1/4 NPT	16	40	16
3/8 NPT	16	40	16
1/2 NPT	20	45	20

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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