

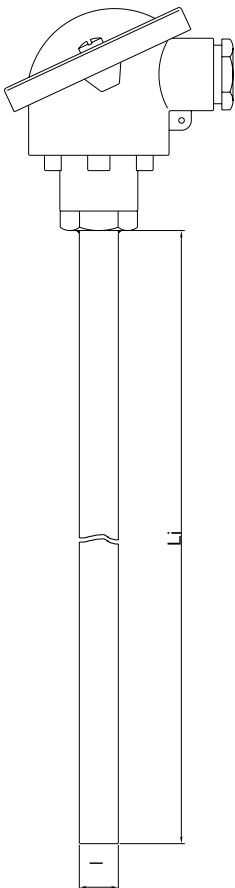


Main features

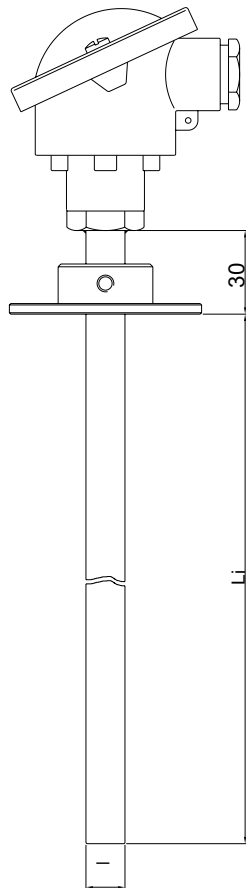
- Amplified output signal
- Temperature limits:
 - 40 ... + 750° C for type J
 - 40 ... + 900° C or type E
 - 40 ... + 1000° C or type K
 (see table for sheath diameters)
- TValid reference tolerances for the sensing element only:
 - IEC standard 584.2/Class 2:
 - $\pm 2.5^{\circ} C$ (- 40 ... + 333° C)
 - $\pm 0.0075 [t]$ ($t > + 333^{\circ} C$)
- Ceramic insulation of the thermocouple element
- Application versatility

MODELS

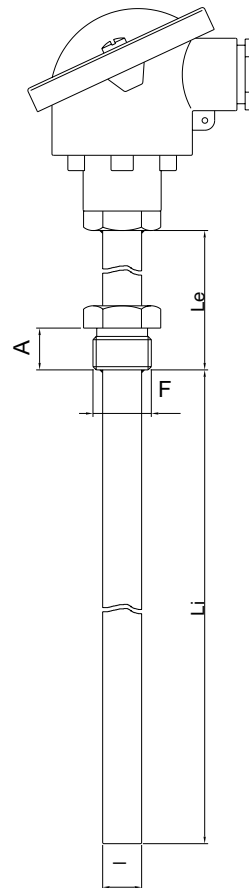
AC8 A
without fitting



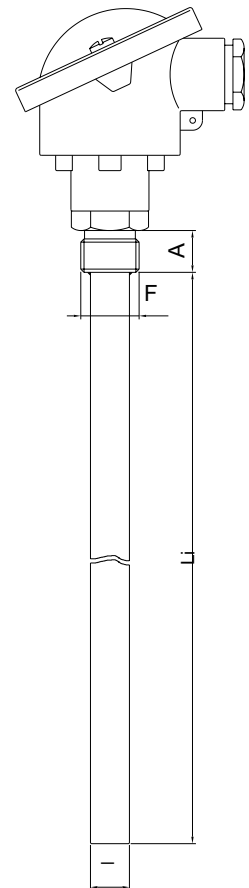
AC8 B
with adjustable flange



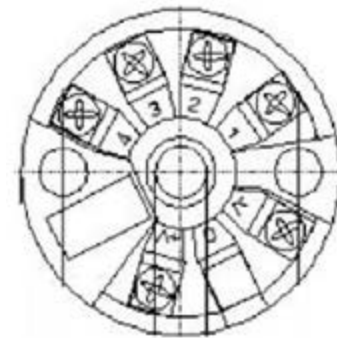
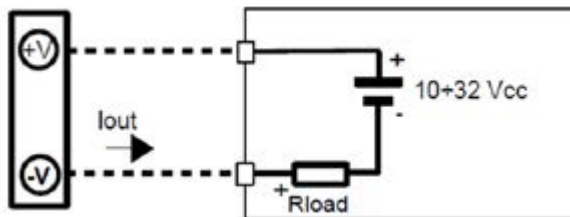
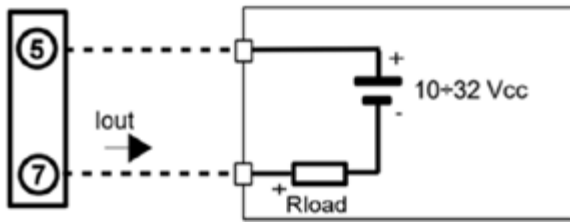
AC8 C
with welded fitting



AC8 D
with welded fitting
under the head



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

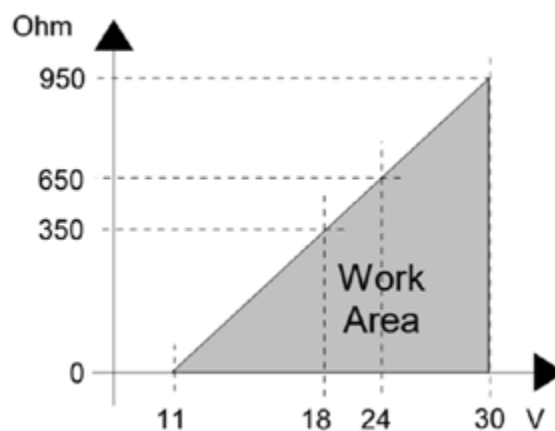
(maximum load value on current loop per power supply value)

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

A C B | | | | | | | | 0 | 0 0 0 X | | | | X | | | | | | A |

CODE

Model	
Without fitting	A
With adjustable flange	B
With welded fitting	C
With welded fitting under the head	D

Element + Hot Junction	
Single Insulated	1
Single Grounded	2

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

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

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

Sheath Diameter (mm)	
16	O
17.2 (3/8")	P
21.3 (1/2")	Q
26.7 (3/4")	T

Connection Thread (*)		
1/2" GAS	"A" = 15mm	D
3/4" GAS	"A" = 18mm	E
1" GAS	"A" = 18mm	F
1/2" NPT		J
3/4" NPT		K
1" NPT		L

(*) Only for C and D models

Conn. / Flange Material		
300 series stainless steel	2	*
Aluminium	4	**
Carbon steel	5	**

(*) For fittings only
(**) For flanges only

Sensors amplifiers are manufactured in compliance with:
- EMC 2014/30/EU compatibility directive
- RoHS 2011/65/EU directive

Certificates	
A	Conformity Report

LENGTHS AND ACCESSORIES

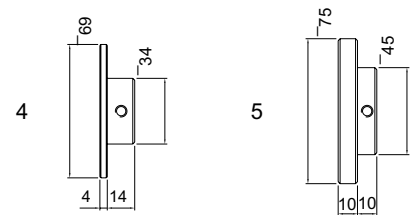
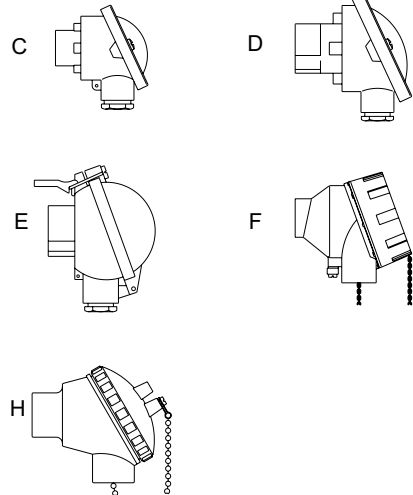
Type of Transmitter	
A	4 ÷ 20mA

Li = Immersion Length (mm)	
Standard length from 50 to 1000mm with 50mm step	

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

(*) To be shown for AC8C model only

Temperature range in which the calibration has to be made			
T. min		T. max	
	°C		°C
4mA		20mA	



	Mod. C - D
MOUNT (F)	A (mm)
G 1/2	15
G 3/4	18
G 1	20
1/2 NPT	20
3/4 NPT	20
1 NPT	25

Availability of Mounts /Sheathing Diameter				
MOUNT. (F)	ø16	ø17.2	ø21.3	ø26.7
G 1/2	x	-	-	-
G 3/4	x	x	x	-
G 1	x	x	x	x
1/2 NPT	x	-	-	-
3/4 NPT	x	x	x	x
1 NPT	x	x	x	x

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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