

STRAIGHT THERMOCOUPLES CxAi series
with beaded interchangeable measure element



- **Heavy duty Construction (stainless steel or steel)**
13.5 to 21.3 mm diameter
- **All applications up to 1200 °C**
Industrial process
Furnaces, smoke stacks, boilers
Combustion process
- **Fast mounting**
Sliding flange, sliding connector
- **Interchangeable measure element**
(TC :J,K,T) class 1
- **Suitable on most process connection**

Beaded interchangeable
measure element



- **Models available in ATEX and IECEx version**
Intrinsic safety Gaz and Dust.



Cx..Ai thermocouple are intended for mechanical or chemical (fume) harsh environment industrial temperature measurement. With large section sheath. For use on large tank and piping. Direct output or loop powered.

TECHNICAL SPECIFICATION: (standard execution)

- **Connecting head:** Light alloy DAN - V (IP 65) type,
Hinge mounting cap with closing by screw,
M20 x1.5 cable gland output
or light alloy A shape (IP 54) type.
- **Fasteing:** oval sliding flange
sliding connection
welded connection
welded flange
(other connection on request)
- **Protection sheath:** 316L stainless steel
carbon steel,
AISI 310 refractory steel
AISI 446 refractory steel
Ø = 13,5 mm, wall thickness = 2,35 mm
Ø = 17,2 mm, wall thickness = 2,3 mm
Ø = 21,3 mm, wall thickness = 2,6 mm
- **Measure element:** Welded Ø 1,5 mm J thermocouple ---Ø 2 mm J thermocouple
Welded Ø 1,62 mm K thermocouple----Ø 3 mm K thermocouple
With ceramic bead, (mineral insulated couple is also possible)
- **Options :** in head embeded transmitter (loop powered)
other pipe Ø, other head type
other materials (inconel)

**Fastening
Accessory**





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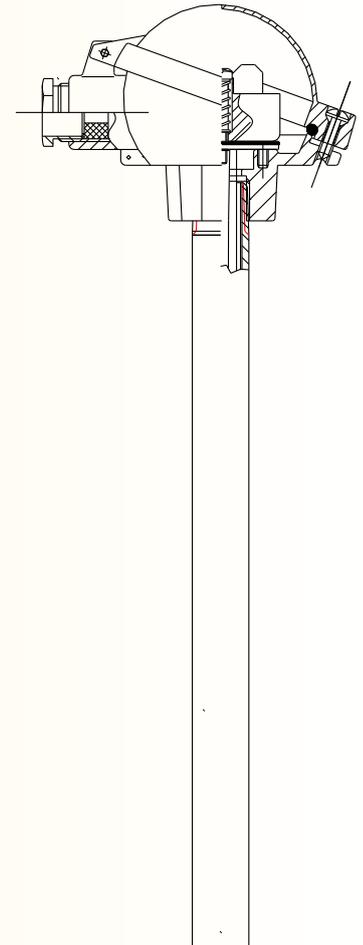
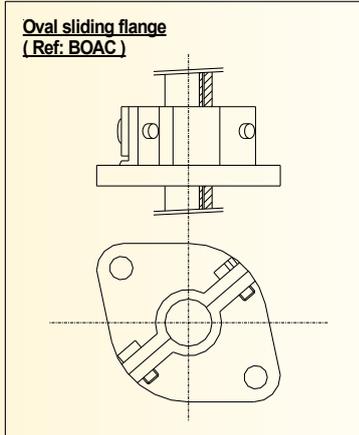
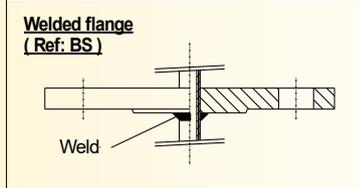
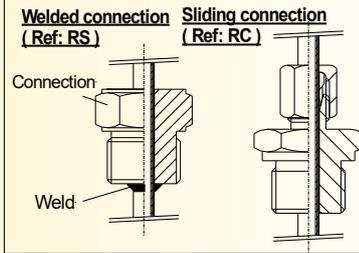


Technical specification

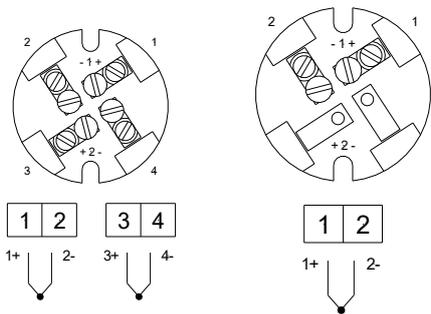
- Maximum temperature use: +1200 °C
- Responce time standard version (mean value given for information only): fonction of sheath type.

in water at 0,2 m/s :	t _{0,5} = 75 s	t _{0,9} = 225 s
in air at 1 m/s :	t _{0,5} = 6 min.	t _{0,9} = >12 min.
- dielectric strength: 500 Vdc; insulation > 200 Mohms
- maximum operating pressure: 80 bar (ambient temperature)

Fastening



Wiring:



Order code

C	K	D	300	Ai	Ti 100	ER	DAN v	-	Rca	/	ELB	21,3
Couple	type	Single (by or Duplex couple	Utile length (mm)	Ai : stainless steel (+700° A : carbon steel (+500°C) AR : refractory steel (+1200°C)	Extension length (intermediate pipe) (mm) optional	if Redu- ced extremity	Head type DANv DANc Cast iron PVC A22 or A32 Stainless steel TVKBL ADF		Connection type R0: no connection (by default) RCi: stainless steel sliding connection RCA: steel sliding connection RSi: stainless steel welded RSa: steel welded connection BOAC: steel sliding flange BS : welded flange		interchangeable element type ELB: output on screw- terminal ELF: output on wires ELC: output on embeded converter Type to be specified CAL40;CNL40;	external sheath diameter 13,5 17,2 21,3