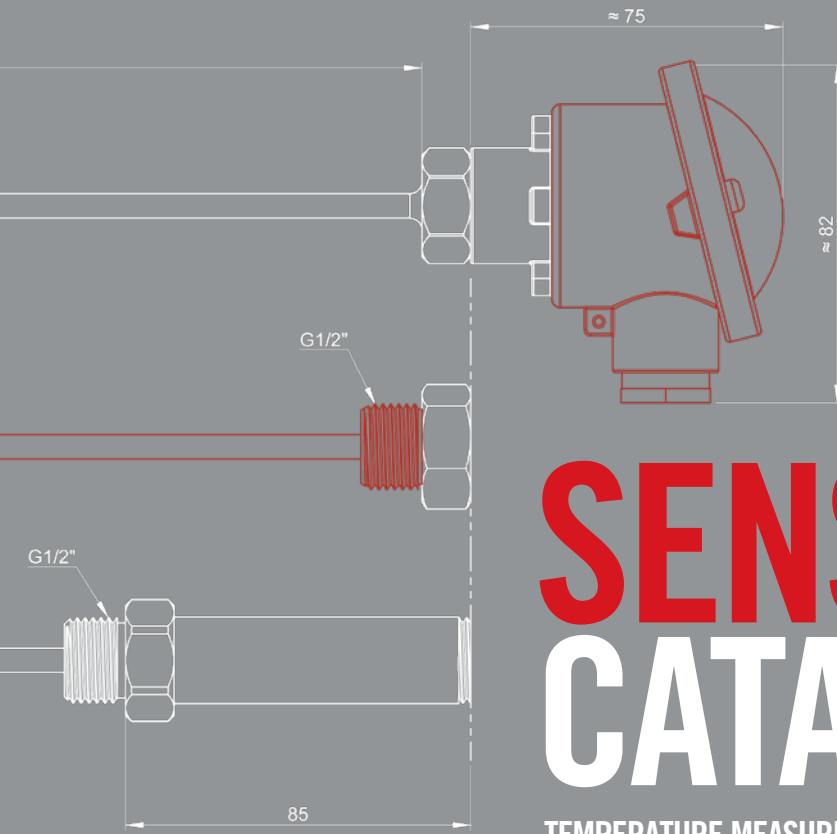
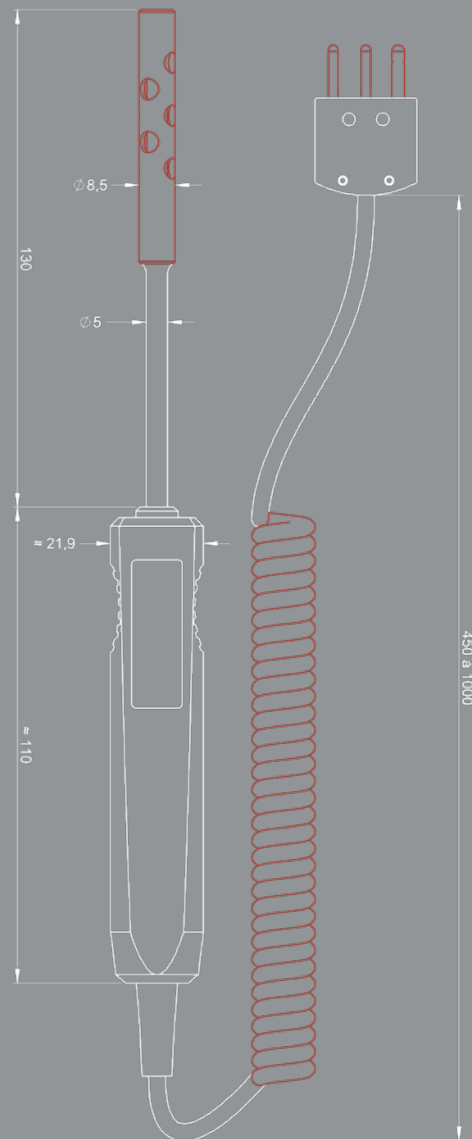
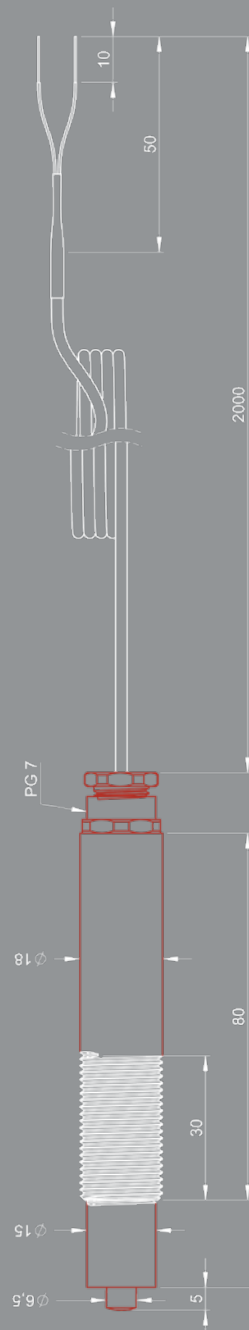
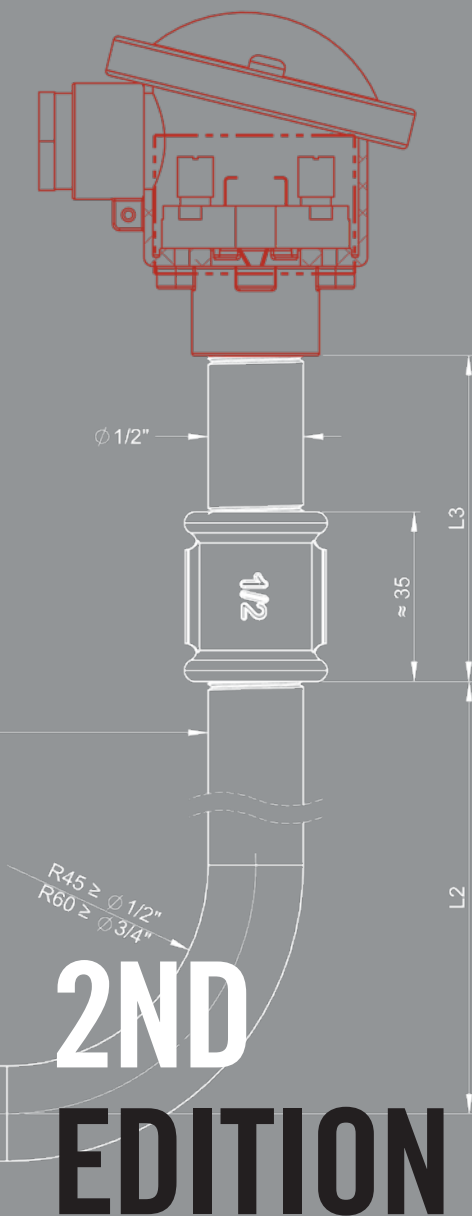


SENSORS CATALOGUE

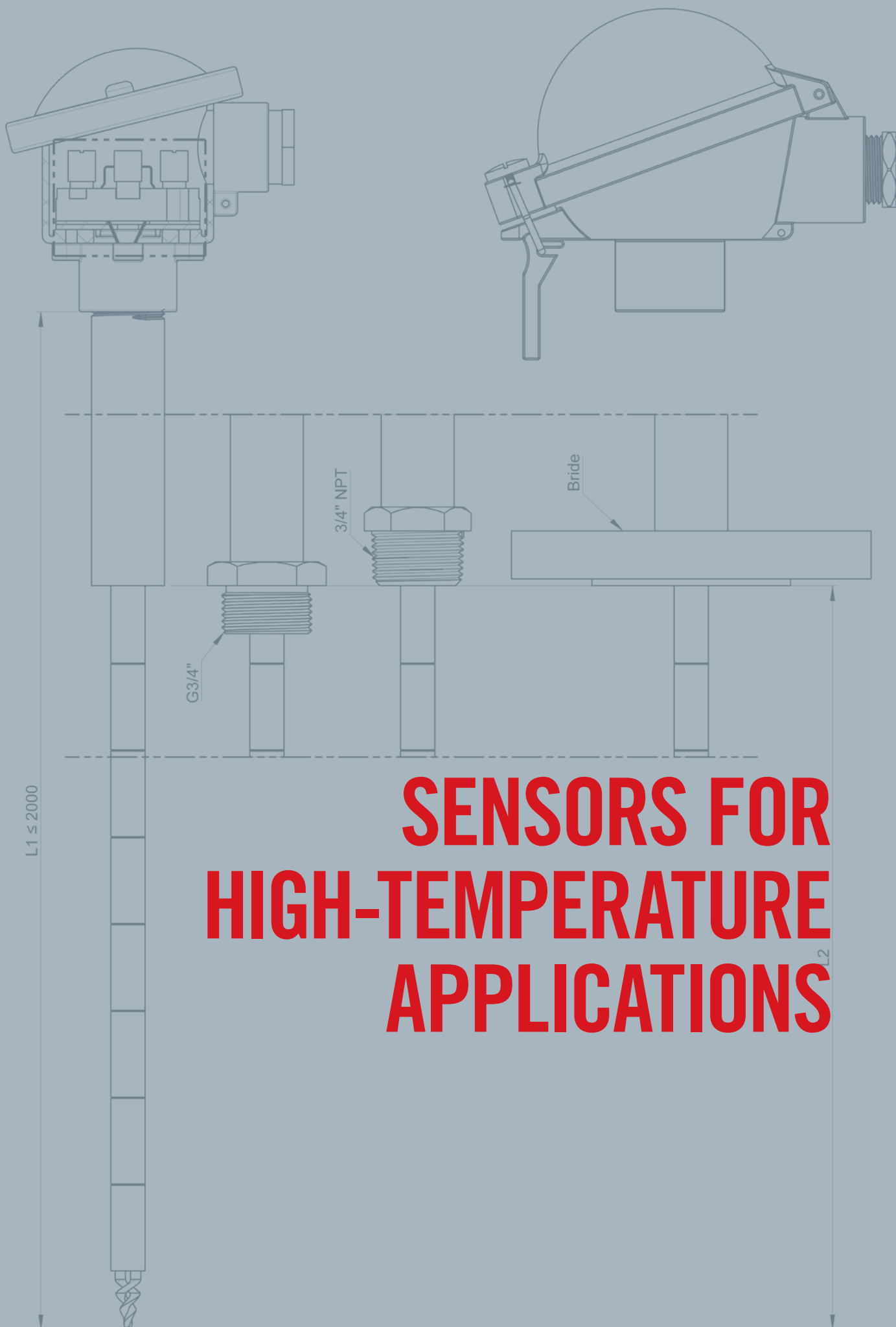
TEMPERATURE MEASUREMENT IN INDUSTRIAL ENVIRONNEMENTS



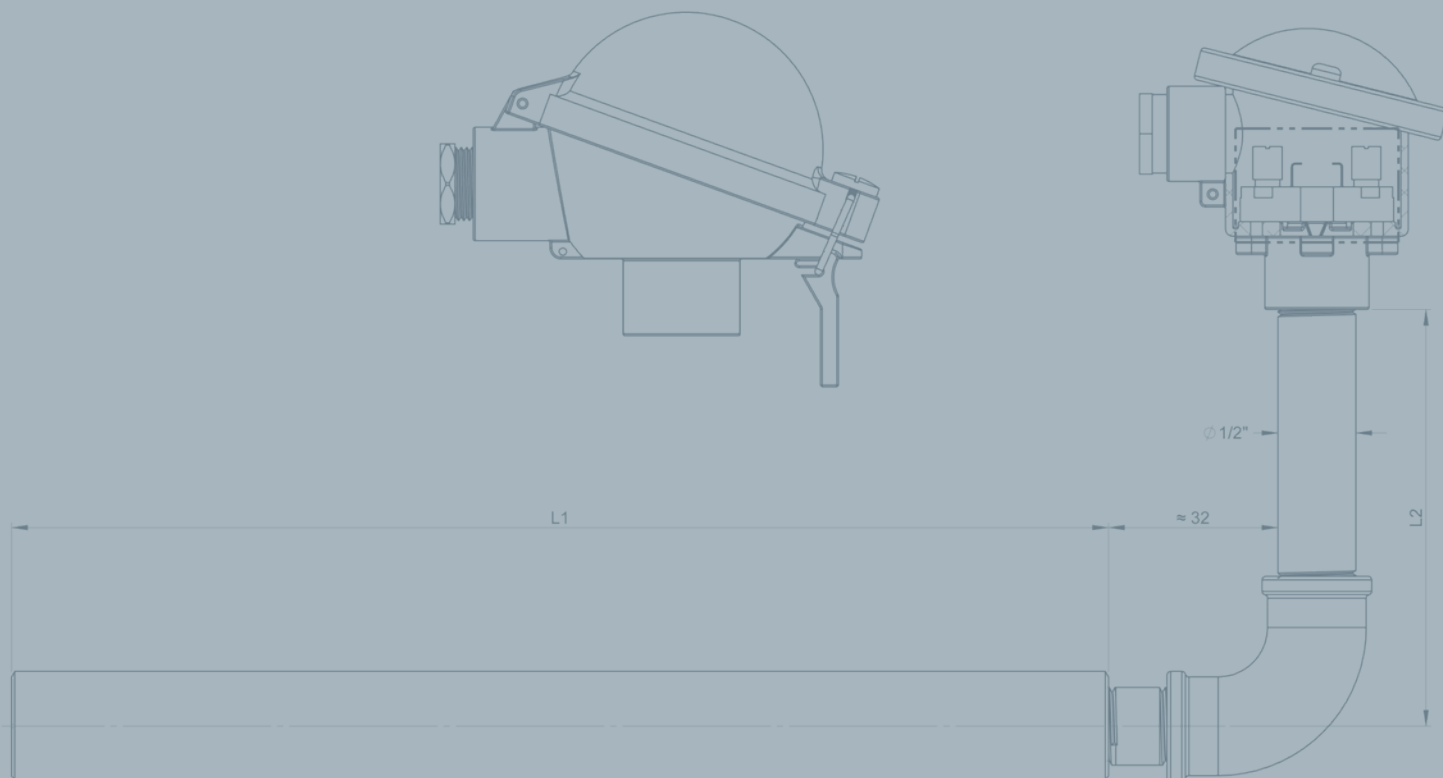
**2ND
EDITION**

Measure up





SENSORS FOR HIGH-TEMPERATURE APPLICATIONS^{L2}



STRAIGHT CADID ASSEMBLIES

108

A	108
B	110
C	112
D	114
E	116
H	118
J	120

DEMOUNTABLE STRAIGHT CADID ASSEMBLIES

122

F	122
G	124

DEMOUNTABLE ELBOWED CADID ASSEMBLIES

126

LB	126
LC	128
LD	130
LE	132

BENT CADID ASSEMBLIES

134

XB	134
XC	136
XD	138
XE	140

TEMPERATURE MEASUREMENT ASSEMBLIES

CADID RANGE

- ▶ **Applications** : temperature of baths, ovens, furnaces and incinerators in metallurgy and glass manufacturing.
- ▶ Manufactured with all the types of thermocouples frequently used for pyrometry, proposed with **single or duplex mounting**.
- ▶ Depending on the protective tube, they may be used in **neutral, reducing, oxidizing, corrosive, sulphurous or carburizing atmospheres**.
- ▶ **COMPLETE RANGE**
- ▶ **16 assembly models divided into 3 series**: normal, reinforced and high-temperature, defined according to the temperature and atmosphere. **Various profiles and protective tubes are available.**
- ▶ **Configurable assemblies**: wide choice of terminations to be defined (material, connecting head, etc.)



1 CHOOSE YOUR CADID ASSEMBLY



2 CONFIGURE YOUR CADID ASSEMBLY



3 COMMISSIONING GUIDE

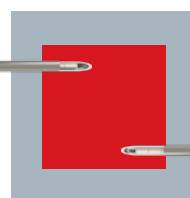
CONFIGURATOR CODE

CADID Series	Operating conditions
NORMAL	General use
REINFORCED	Adapted for more corrosive atmospheres and/or higher temperatures (thicker protection without welds)
HIGH-TEMPERATURE	Adapted for high temperatures (alumina/ceramic protection)

CHOICE OF PROTECTIVE TUBE PROFILE

FOR FURNACES AND OVENS

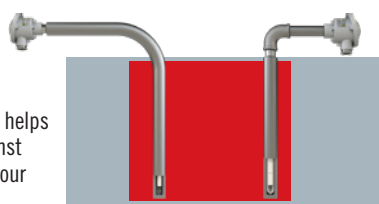
Straight profile
basic profile for standard use



Demountable straight profile
the protective tube can be replaced in the event of wear or breakage

FOR BATHS

Bent profile
bending of the protective tube helps to protect against aggressive vapour above the bath.



Demountable elbowed profile:
the protective tube is interchangeable

CADID ASSEMBLY SELECTION GUIDE

17 CADID assembly models are available with specific technical characteristics

Thermocouple protection			Straight	Demountable straight	Demountable elbows	Bent
Protective tube profile						
Without protective tube			CADID A page 108	—	—	—
Normal series		Mechanically-welded protective tube	CADID B page 110	—	CADID LB page 126	CADID XB page 134
		With internal sheath	CADID C page 112	—	CADID LC page 128	CADID XC page 136
Reinforced series		Metal, drilled from bar stock	CADID D page 114	CADID F page 122	CADID LD page 130	CADID XD page 138
		With internal sheath	CADID E page 116	CADID G page 124	CADID LE page 132	CADID XE page 140
High-temperature series		Ceramic or alumina sheath	CADID H page 118	—	—	—
		With internal sheath	CADID J page 120	—	—	—

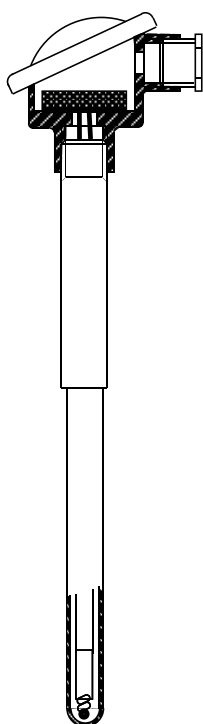
1 CHOOSE YOUR CADID ASSEMBLY



2 CONFIGURE YOUR CADID ASSEMBLY



3 COMMISSIONING GUIDE



For each CADID assembly model, various configurations need to be defined.



STEP 1: THERMOCOUPLE

Conductor type		Conductor type °C		Tolerance values	Ø of wires (mm)
		Min.	Max.		
J	Iron/ Copper-Nickel	- 40	+ 750	1.5°C or 0.4% of t	1.5
K	Nickel-Chrome / Nickel alloy	- 40	+ 1,000	1.5°C or 0.4% of t	1.5 2.3 3.0
S	10% Rhodium-Platinum/Platinum	0	+ 1,600	1°C for t < 1100°C [1 + 0.003 x (t-1100)] for t > 1100°C	0.35 0.5
B	5% Rhodium-Platinum / 30% Rhodium-Platinum	+ 600	+ 1,700	1.5°C or 0.25% of t	0.35 0.5

Advice for optimizing your thermocouple's life span

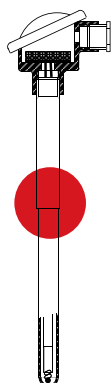
- Choose a thermocouple with a higher temperature withstand
- Increase the diameter of the thermocouple wires
- Protect the thermocouple with a 2nd alumina 710 sheath

Temperature and voltage in mV, extract from the IEC584 correspondence table:

T°	Type of thermocouple						
	IEC584						ASTM E988
	T	J	k	N	R	B	WRe 3% -25%
-40°C	-1.475	-1.960	-1.527	-1.023	-0.188		
0°C	0	0	0	0	0	0	0
50°C	2.036	2.585	2.023	1.340	0.296	0,002	0.528
100°C	4.279	5.269	4.096	2.774	0.647	0,033	1.145
150°C	6.704	8.010	6.138	4.302	1.041	0,092	1.841
200°C	9.288	10.779	8.138	5.919	1.469	0,178	2.603
300°C	14.862	16.327	12.209	9.341	2.401	0,431	4.287
400°C	20.872	21.848	16.397	12.974	3.408	0,787	6.130
500°C		27.393	20.644	16.748	4.471	1,242	8.078
600°C		33.102	24.905	20.613	5.583	1,792	10.088
800°C			33.275	28.455	7.980	3,154	14.170
1000°C			41.276	36.256	10.506	4,834	18.230
1200°C			48.838	43.846	13.228	6,786	22.149
1400°C					16.040	8.956	25.882
1600°C					18.843	11.263	29.412
1800°C						13.591	32.712
2000°C							35.717

STEP 2: PROTECTIVE TUBE MATERIAL

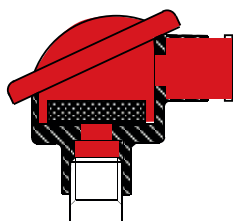
Series	Atmosphere	Max. temperature	Protective tube material
Normal	Neutral or oxidizing	800°C	AISI 304L
		1,050°C	AISI 316L
	Reducing	1,050°C	AISI 446
		1,100°C	Inconel 600
	Sulphurous or carburizing	1,050°C	AISI 446
Reinforced	Corrosive	-	AISI 446
	Neutral	800°C	Pure iron
		1,050°C	AISI 316L
	Neutral or oxidizing	1,050°C	AISI 446
		1,100°C	Inconel 600
	Reducing	1,050°C	AISI 446
		1,100°C	Inconel 600
	Sulphurous or carburizing	1,050°C	AISI 446
High-temperature	Neutral or oxidizing	1,400°C	AISI 446
		1,500°C	Inconel 600
	Reducing	1,050°C	AISI 304L
		1,100°C	AISI 316L
	Sulphurous or carburizing	1 350°C	Ceramic-alumina
		1,400°C	Double ceramic-alumina



STEP 3: FASTENING OF SENSOR

Fastening	Sleeve	Screwed fitting		Flange
Construction				
Technical characteristics	The sleeve is screwed or welded on the process.	G (gas) threading Parallel internal thread ensuring tightness via surfaces upstream of the threading (seal)	NPT threading as per ANSI B 1.20.1. It is designed according to an American standard for self-packing duct joints . Tightness is achieved by tightening the joint on the installation.	The flanges are defined according to the DIN or ANSI/ASME standards. They are distinguished by their material, nominal diameter and pressure withstand.

STEP 4:CONNECTING HEAD



Model	DIN A	DIN B	DAN
Construction			
Technical characteristics	Screw-on cover 3/4 sleeve max.	Screw-on cover 1/2 sleeve max.	Captive pivoting cover 1/2 sleeve max.
	Easy wiring	The smallest and the most economical	Quick opening/closing Cover part of base

1 CHOOSE YOUR CADID ASSEMBLY



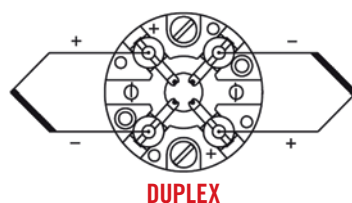
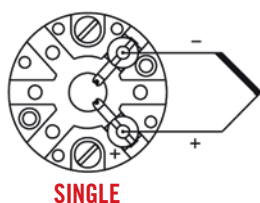
2 CONFIGURE YOUR CADID ASSEMBLY



3 COMMISSIONING GUIDE

ELECTRICAL CONNECTION

Thermocouple wiring DIAGRAM (MM)s



EXTENSION AND COMPENSATION CABLES

Extension cables

Manufactured with wires of the same materials as the wires of the corresponding thermocouples. They are identified by the letter "X" placed after the code of the thermocouple, e.g. "KX".

Compensation cables

Manufactured with wires of different materials from the corresponding thermocouple wires. They are identified by the letter "C" placed after the code of the thermocouple.

TC code	Extension code	Compensation code	NFC 42323 Feb. 1985	IEC 584-3 July 90 NFC 42324 Dec. 93
T	TX	TC		
J	JX	JC		
E	EX	EC		
K	KX	KC		
N	NX	NC		
R-S		KC/SCA		
B		BC		

Installation recommendations

- ▶ CADID assemblies must be handled with care.
- ▶ The assemblies with alumina/ceramic sheaths cannot withstand any shocks or bending.
- ▶ For the first time a new furnace is heated: raise by 100°C max. per hour. If it is necessary to mount the assembly when it is hot, insert the assembly in several stages, particularly if the assembly has an alumina sheath.

COMMISSIONING

Cold mounting is recommended to avoid thermal shock.



CADID A

THERMOCOUPLE

IP
54CLASS
1IEC
584-1NF EN
60584-1

DESCRIPTION

Straight temperature measurement assembly

SPECIFICATIONS

Model		CADID Type A	
Compliance with standards		IEC 584-1 / NF EN 60584-1	
Type		K	J
Class		1	
Wire diameter (mm)		1.5 / 2.3 / 3.0	1.5
TC		Single / Duplex	
Length L1 Min/Max (mm)		300 to 2,000 mm	
Length L2 Min/Max (mm)		200 to 1,500 mm	
Sleeve	Material	stainless steel	
	Length	100 to 500 mm	
	Diameter	1/2"	
Fastening		None / stainless-steel fitting / flange	
Output	Head type	DAN	DIN B
	Material	Light alloy	
	Output	1 cable gland M20x1.5	
	Cable diam.	5.5 to 7.5 mm	
	Equipment	Ceramic terminal strip (standard) Transmitter	
	IP	IP54	
Accessories (p. 338)		Extension cables, compensation cables, EBA flanges	

DESIGN YOUR SENSOR

CONFIGURATOR CODE

Parameters to be indicated when ordering. Example:

Parameters to be indicated when ordering. Example:

MODEL	TYPE	TC	Ø WIRE	HEAD	LENGTH L1 (mm)	FASTENING	LENGTH L2 (mm)	OPTION										
CADID	-	A	-	1J	-	3,0	-	DAN	-	1,000	-	001	-	200	-	A	-	0/150
Reference in table and DIAGRAM (MM)		1	1	2	3	4	5	6										
Possible choice		1J 1K 2J 2K	1.5 2.3 3.0	DIN B: DIB DAN: DAN	300 to 2,000	Without: 000 G3/4": 001 3/4"NPT: 002 Flange: as per table below	200 to 1,500	LC5334A-100: A LC5331A-321: B LC5335A-100: C										

TABLE OF CONDUCTOR TYPE - WIRE DIAMETER

Conductor type		Conductor type °C		Tolerance values	Ø of wires (mm)
		Mini	Maxi		
J	Iron / Copper-Nickel	-40	+750	1.5°C or 0.4% of t	1.5
K	Nickel Chrome/ Nickel	0	+1200	1.5°C or 0.4% of t	1.5 2.3 3.0

FASTENING

Flange code	Material	EN1092-1		
		DN	PN	Face
405	316L	25	10/40	B1
400	316L	40	10/40	B1
413	316L	50	10/40	B1

TRANSMITTER (1 TC ONLY) - OPTION

Transmitter			
Input	Output	Galvanic insulation	Reference
TC	4-20mA	1.5kV	LC5334A-100
TC + Pt100	4-20mA	1.5kV	LC5331A-321
TC + Pt100	4-20mA + HART	1.5kV	LC5335A-100

CONNECTION ON TERMINAL STRIP

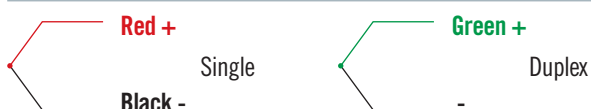
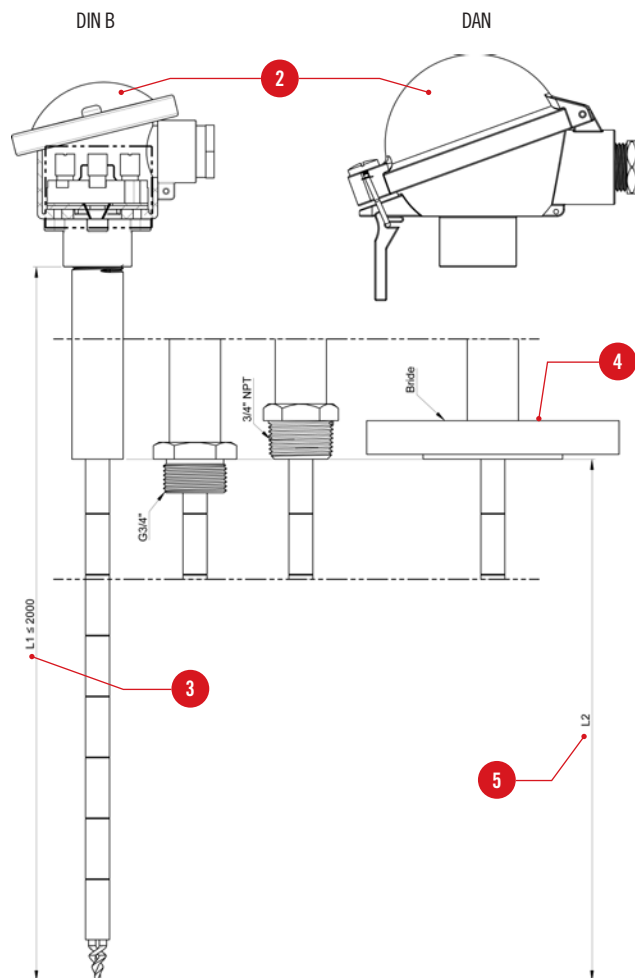


DIAGRAM (MM)



For any other configuration, please contact us.



CADID B

THERMOCOUPLE

IP
54CLASS
1IEC
584-1NF EN
60584-1

DESCRIPTION

Straight temperature measurement assembly

SPECIFICATIONS

Model		CADID Type B	
Compliance with standards		IEC 584-1 / NF EN 60584-1	
Type		K	J
Class		1	
Wire diameter (mm)		1.5 / 2.3 / 3.0	1.5
TC		Single / Duplex	
Length L1 Min/Max (mm)		300 to 2,000 mm	
Length L2 Min/Max (mm)		200 to 1,500 mm	
		Necked welded	
Protective tube	Material	304L / 310 / 316 / 446 / INCONEL 600	
	Diameter	3/8" - 1/2"	
Fastening		None / stainless-steel fitting / flange	
Output	Head type	DAN	DIN B
	Material	Light alloy	
	Output	1 cable gland M20x1.5	
	Cable diam.	5.5 to 7.5 mm	
	Equipment	Ceramic terminal strip (standard) Transmitter	
	IP	IP54	
Accessories (p. 338)		Extension cables, compensation cables, EBA flanges	

DESIGN YOUR SENSOR

CONFIGURATOR CODE

Parameters to be indicated when ordering. Example:

MODEL	TYPE	TC	Ø WIRE	HEAD	PROTECTIVE TUBE	Ø PROT.	LENGTH L1 (mm)	FASTENING	LENGTH L2 (mm)	OPTION	
CADID	- B	- 2K	- 1,5	- DIB	- AB	- 1/2"	- 1,000	- 003	- 500	TRANSMITTER	TRANSMITTER SCALE
Reference in table and DIAGRAM (MM)		1	1	2	3	4	5	6	7	8	
Possible choice		1J 1K 2J 2K	1.5 2.3 3.0	DIN B : DIB DAN : DAN	304L : AB 310 : BA 316L : AC 446 : BB Inconel 600 : CM	3/8" 1/2"	300 to 2,000	Without: 000 G1/2": 003 G3/4": 001 1/2"NPT: 004 3/4"NPT: 002 Flange: as per table below	200 to 1,500	LC5334A-100 : A LC5331A-321 : B LC5335A-100 : C	0/150

TABLE OF CONDUCTOR TYPE - WIRE DIAMETER

Conductor type		Conductor type °C		Tolerance values	Ø of wires (mm)
		Min.	Max.		
J	Iron/Copper-Nickel	-40	+750	1.5°C or 0.4% of t	1.5
K	Nickel-Chrome/ Nickel alloy	-40	+1,000	1.5°C or 0.4% of t	1.5 2.3 3.0

FASTENING

Flange code	Material	EN1092-1		
		DN	PN	Face
405	316L	25	10/40	B1
400	316L	40	10/40	B1
413	316L	50	10/40	B1

TRANSMITTER 1 TC ONLY- OPTION

Transmitter			
Input	Output	Galvanic insulation	Reference
TC	4-20mA	1.5kV	LC5334A-100
TC + Pt100	4-20mA	1.5kV	LC5331A-321
TC + Pt100	4-20mA + HART	1.5kV	LC5335A-100

CONNECTION ON TERMINAL STRIP

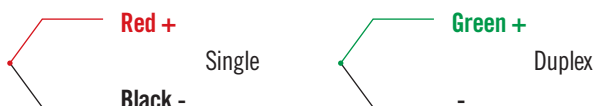
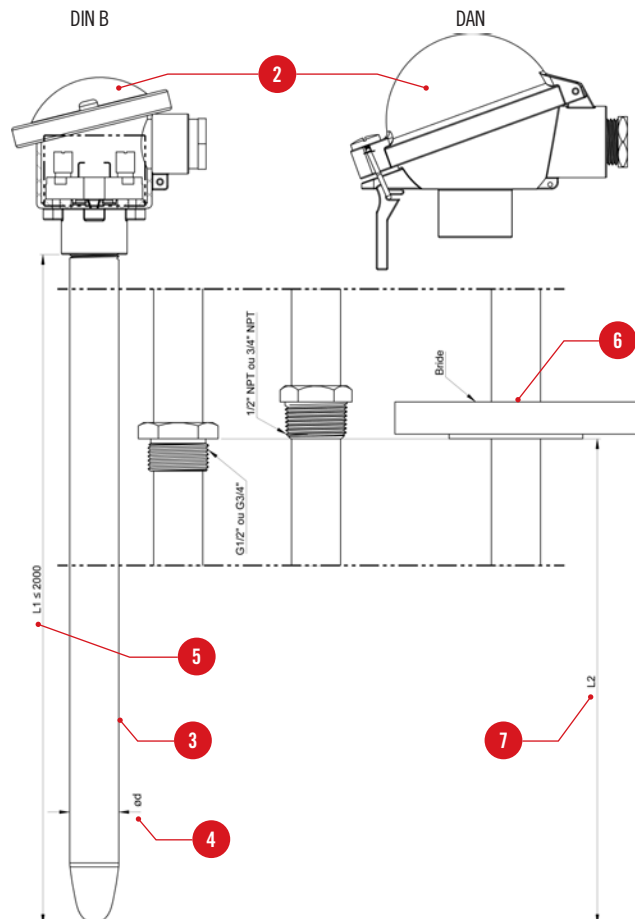


DIAGRAM (MM)



For any other configuration, please contact us.



CADID C

THERMOCOUPLE

IP
54CLASS
1IEC
584-1NF EN
60584-1

DESCRIPTION

Straight temperature measurement assembly

SPECIFICATIONS

Model		CADID Type C	
Compliance with standards		IEC 584-1 / NF EN 60584-1	
Type		S	
Class		1	
Wire diameter (mm)		0.35 / 0.5	
TC		Single / Duplex	
Length L1 Min/Max (mm)		300 to 2,000 mm	
Length L2 Min/Max (mm)		200 to 1,500 mm	
Internal sheath		Ceramic 610 Diam.10x1.5 mm	
		Necked welded	
Protective tube	Material	310 / 446 / INCONEL 600	
	Diameter	1/2"	
Fastening		None / stainless-steel fitting / flange	
Output	Head type	DAN	DIN B
	Material	Light alloy	
	Output	1 cable gland M20x1.5	
	Cable diam.	5.5 to 7.5 mm	
	Equipment	Ceramic terminal strip (standard) Transmitter	
	IP	IP54	
Accessories (p. 338)		Extension cables, compensation cables, EBA flanges	

DESIGN YOUR SENSOR

CONFIGURATOR CODE

Parameters to be indicated when ordering. Example:

Parameters to be indicated when ordering. Example:										OPTION	
MODEL	TYPE	TC	Ø WIRE	HEAD	PROTECTIVE TUBE	LENGTH L1 (mm)	FASTENING	LENGTH L2 (mm)	TRANSMITTER	TRANSMITTER SCALE	
CADID	C	2S	0.5	DAN	BB	500	000	200	A	0/200	
Reference in table and DIAGRAM (MM)		1	1	2	3	4	5	6	7		
Possible choice		1S 2S	0.35 0.5	DIN B: DIB DAN: DAN	310: BA 446: BB Inconel 600: CM	300 to 2,000	Without: 000 G3/4": 001 3/4"NPT: 002 Flange: as per table below	200 to 1,500	LC5334A-100: A LC5331A-321: B LC5335A-100: C		

TABLE OF CONDUCTOR TYPE - WIRE DIAMETER

Conductor type		Conductor type °C		Tolerance values	Ø of wires (mm)
		Min.	Max.		
S	10 % rhodium-platinum/Platinum	0	+1,600	1°C for t < 1100°C [1 + 0.003 x (t-1100)] for t > 1100°C	0.35 0.5

FASTENING

Flange code	Material	EN1092-1		
		DN	PN	Face
405	316L	25	10/40	B1
400	316L	40	10/40	B1
413	316L	50	10/40	B1

TRANSMITTER (1 TC ONLY) - OPTION

Transmitter			
Input	Output	Galvanic insulation	Reference
TC	4-20mA	1.5kV	LC5334A-100
TC + Pt100	4-20mA	1.5kV	LC5331A-321
TC + Pt100	4-20mA + HART	1.5kV	LC5335A-100

CONNECTION ON TERMINAL STRIP

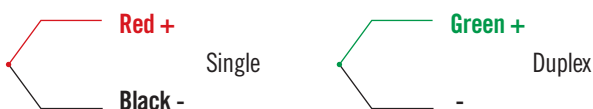
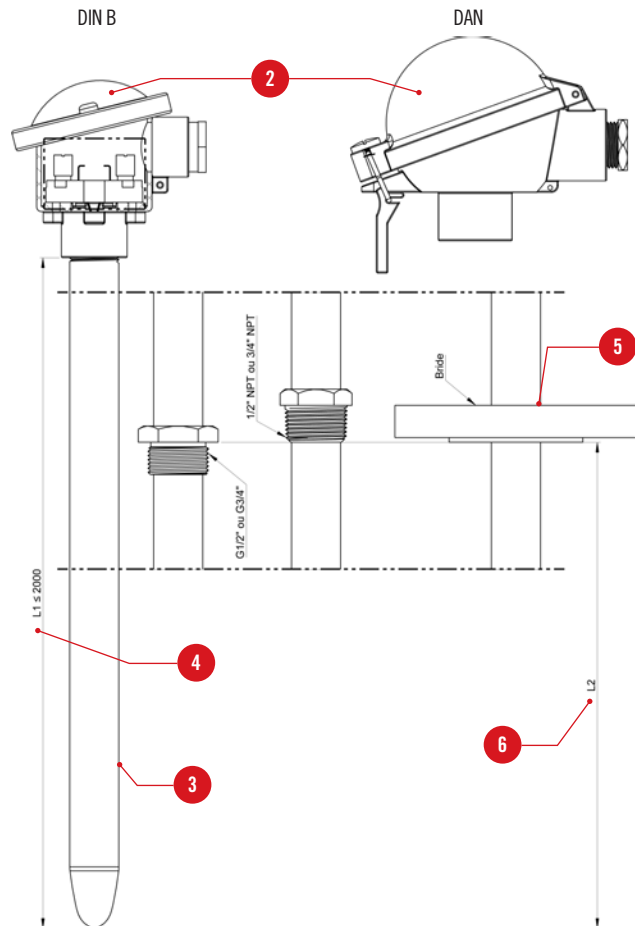


DIAGRAM (MM)



For any other configuration, please contact us.



CADID D

THERMOCOUPLE

IP
54

CLASS
1

IEC
584-1

NF EN
60584-1



DESCRIPTION

Straight temperature measurement assembly

SPECIFICATIONS

Model		CADID Type D	
Compliance with standards		IEC 584-1 / NF EN 60584-1	
Type		K	J
Class		1	
Wire diameter (mm)		1.5/ 2.3 / 3.0	1.5
TC		Single / Duplex	
Length L1 Min/Max (mm)		300 to 2,000 mm	
		Metal, drilled from bar stock	
Protective tube	Material	Pure iron / 310 / 446 / INCONEL 600	
	Diameter	30 x 7 mm	
Output	Head type	DAN	DIN B
	Material	Light alloy	
	Output	1 cable gland M20x1.5	
	Cable diam.	5.5 to 7.5 mm	
	Equipment	Ceramic terminal strip (standard) Transmitter	
	IP	IP54	
Accessories (p. 338)		Extension cables, compensation cables, EBA flanges	

DESIGN YOUR SENSOR

CONFIGURATOR CODE

Parameters to be indicated when ordering. Example:

Parameters to be indicated when ordering. Example:

MODEL	TYPE	TC	Ø WIRE	HEAD	PROTECTIVE TUBE	LENGTH L1 (mm)	OPTION									
CADID	-	D	-	1K	-	3.0	-	DAN	-	BB	-	800	-	C	-	0/150
Reference in table and DIAGRAM (MM)		1	1	2	3	4	5									
Possible choice		1J 1K 2J 2K	1.5 2.3 3.0	DIN B: DIB DAN: DAN	310: BA 446: BB Inconel 600: CM Pure iron: FF	300 to 2,000	LC5334A-100: A LC5331A-321: B LC5335A-100: C									

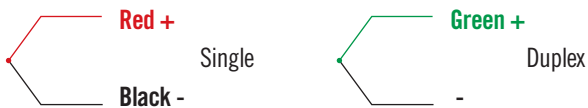
TABLE OF CONDUCTOR TYPE - WIRE DIAMETER

Conductor type		Conductor type °C		Tolerance values	Ø of wires (mm)
		Min.	Max.		
J	Iron/Copper-Nickel	-40	+750	1.5°C or 0.4% of t	1.5
K	Nickel-Chrome/Nickel	-40	+1,000	1.5°C or 0.4% of t	1.5 2.3 3.0

TRANSMITTER (1 TC ONLY) - OPTION

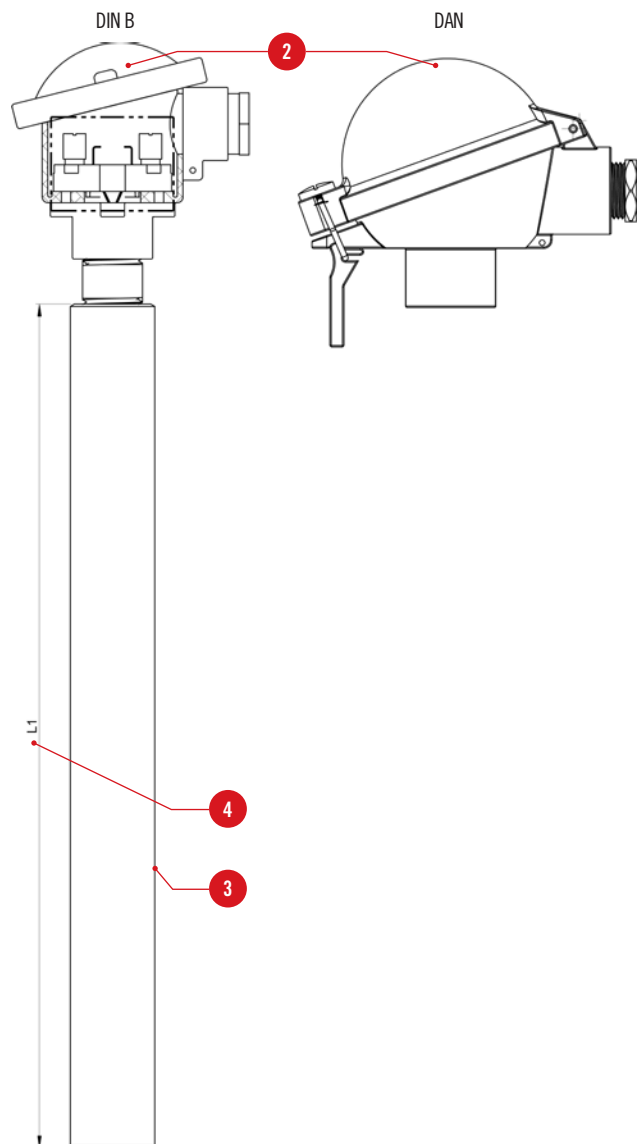
Transmitter			
Input	Output	Galvanic insulation	Reference
TC	4-20mA	1.5kV	LC5334A-100
TC + Pt100	4-20mA	1.5kV	LC5331A-321
TC + Pt100	4-20mA + HART	1.5kV	LC5335A-100

CONNECTION ON TERMINAL STRIP



For any other configuration, please contact us.

DIAGRAM (MM)





CADID E

THERMOCOUPLE

IP
54

CLASS
1

IEC
584-1

NF EN
60584-1



DESCRIPTION

Straight temperature measurement assembly

SPECIFICATIONS

Model		CADID Type E	
Compliance with standards		IEC 584-1 / NF EN 60584-1	
Type		K	S
Class		1	
Wire diameter (mm)		1.5	0.35 / 0.5
TC		Single / Duplex	
Length L1 Min/Max (mm)		300 to 2,000 mm	
		Metal, drilled from bar stock	
Protective tube	Material	Pure iron / 310 / 446 / INCONEL 600	
	Diameter	30 x 7 mm	
Internal sheath	Material	Ceramic 610	
	Diameter	15 x 2 mm	
Output	Head type	DAN	DIN B
	Material	Light alloy	
	Output	1 cable gland M20x1.5	
	Cable diam.	5.5 to 7.5 mm	
	Equipment	Ceramic terminal strip (standard) Transmitter	
	IP	IP54	
Accessories (p. 338)		Extension cables, compensation cables	

DESIGN YOUR SENSOR

CONFIGURATOR CODE

Parameters to be indicated when ordering. Example:

Parameters to be indicated when ordering. Example:										OPTION						
MODEL	TYPE	TC	Ø WIRE	HEAD	PROTECTIVE TUBE	LENGTH L1 (mm)	TRANSMITTER	TRANSMITTER SCALE								
CADID	-	E	-	2S	-	0.35	-	DIB	-	BA	-	1,200	-	B	-	0/150
Reference in table and DIAGRAM (MM)		1	1	2	3	4	5									
Possible choice		1K 1S 2K 2S	0.35 0.5 1.5	DIN B: DIB DAN: DAN	310: BA 446: BB Inconel 600: CM Pure iron: FF	300 to 2,000	LC5334A-100: A LC5331A-321: B LC5335A-100: C									

TABLE OF CONDUCTOR TYPE - WIRE DIAMETER

Conductor type		Conductor type °C		Tolerance values	Ø of wires (mm)
		Min.	Max.		
K	Nickel-Chrome/ Nickel	-40	+ 1,000	1.5°C or 0.4% of t	1.5
S	10% rhodium-platinum / Platinum	0	+ 1,600	1°C for t < 1100°C [1 + 0.003 x (t-1100)] for t > 1100°C	0.35 0.5

TRANSMITTER (1 TC ONLY) - OPTION

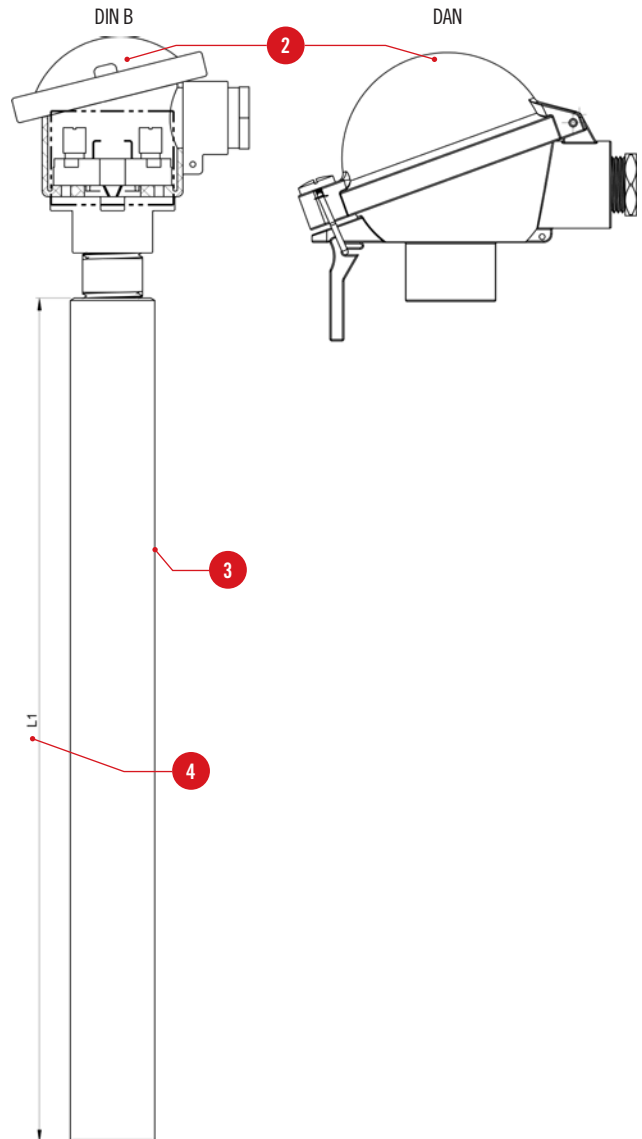
Transmitter			
Input	Output	Galvanic insulation	Reference
TC	4-20mA	1.5kV	LC5334A-100
TC + Pt100	4-20mA	1.5kV	LC5331A-321
TC + Pt100	4-20mA + HART	1.5kV	LC5335A-100

CONNECTION ON TERMINAL STRIP



For any other configuration, please contact us.

DIAGRAM (MM)





CADID H

THERMOCOUPLE

IP
54

CLASS
1

IEC
584-1

NF EN
60584-1



DESCRIPTION

Straight temperature measurement assembly

SPECIFICATIONS

Model		CADID Type H		
Compliance with standards		IEC 584-1 / NF EN 60584-1		
Type		K	S	B
Class		1		2
Wire diameter (mm)		2.3	0.35/0.5	0.5
TC		Single / Duplex		
TC mounting		Beaded, ceramic beads		
Length L1 Min/Max (mm)		300 to 2,000 mm		
Sealing sleeve		Stainless steel, diam.1/2", length 80mm		
Sheath	Material	Ceramic 610		Alumina 710
	Diameter	15 x 2 mm		15 x 2.5 mm
Output	Head type	DAN		DIN B
	Material	Light alloy		
	Output	1 cable gland M20x1.5		
	Cable diam.	5.5 to 7.5 mm		
	Equipment	Ceramic terminal strip		
	IP	IP54		
Accessories (p. 338)		Extension cables, compensation cables		

DESIGN YOUR SENSOR

CONFIGURATOR CODE

Parameters to be indicated when ordering. Example:

MODEL	TYPE	TC	Ø WIRE	HEAD	SHEATH	LENGTH L1 (mm)	LENGTH LM (mm)	FASTENING	LENGTH L2 (mm)
CADID	H	1K	2.3	DAN	FP	850	80	001	500
Référence tableau et schéma		1	1	2	3	4	5	6	7
Choix possible		1K 1S 1B 2K 2S 2R	0.35 0.5 2.3	DIN B : DIB DAN : DAN	Ceramic 610: FP Alumina 710: FQ	300 to 2,000	LM > 80mm LM Standard: 80 mm	Without: 000 G3/4": 001 3/4"NPT: 002 Flange: as per table below	200 to 1,500

TABLE OF CONDUCTOR TYPE - WIRE DIAMETER

Conductor type		Conductor type °C		Tolerance values	Ø of wires (mm)
		Min.	Max.		
K	Nickel-Chrome/ Nickel	- 40	+ 1,000	1°C or 0.4% of t	2.3
S	10% rhodium-platinum / Platinum	0	+ 1,600	1°C for t < 1100°C [1 + 0.003 x (t - 1100)] for t > 1100°C	0.35 0.5
B	10% rhodium-platinum / 30% rhodium-platinum	+ 600	+ 1,700	1.5°C or 0.25% of t	0.5

FASTENING

Flange code	Material	EN1092-1		
		DN	PN	Face
405	316L	25	10/40	B1
400	316L	40	10/40	B1
413	316L	50	10/40	B1

CONNECTION ON TERMINAL STRIP

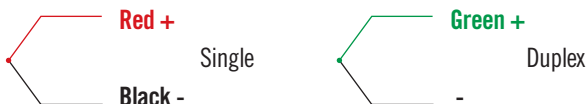
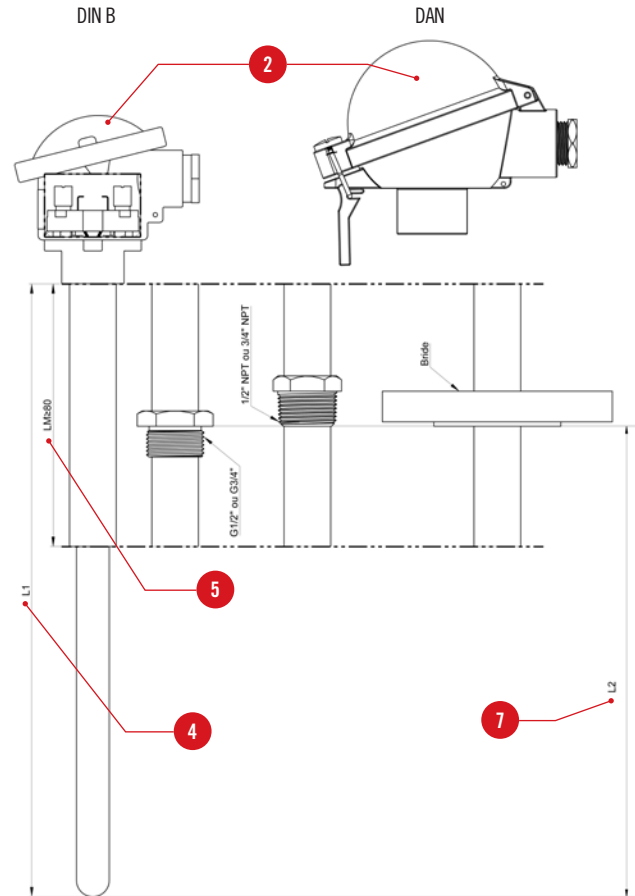
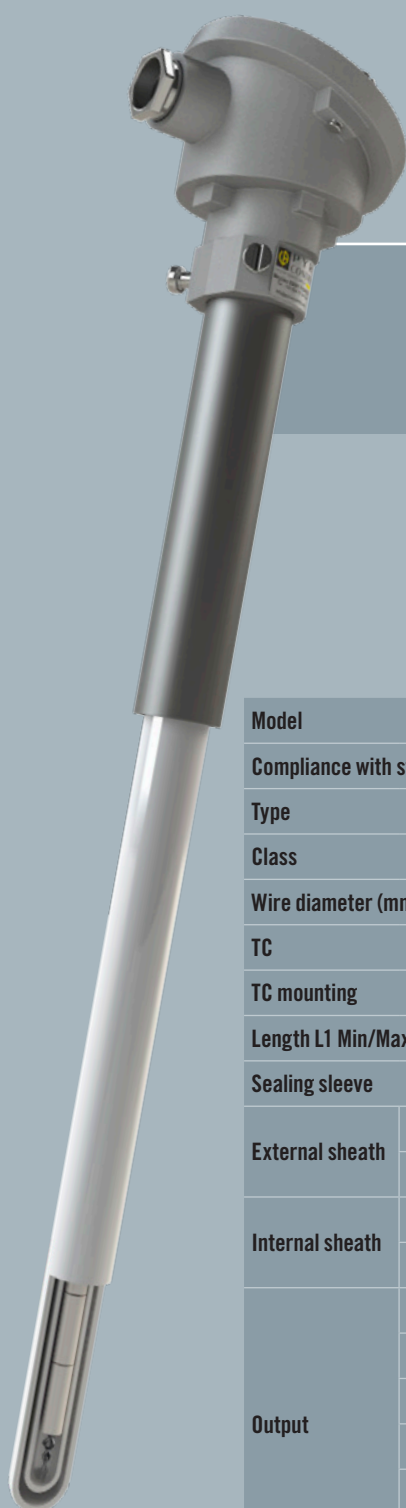


DIAGRAM (MM)



For any other configuration, please contact us.



CADID J

THERMOCOUPLE

IP
54CLASS
1IEC
584-1NF EN
60584-1up to
1500°C

DESCRIPTION

Straight temperature measurement assembly

SPECIFICATIONS

Model		CADID Type J			
Compliance with standards		IEC 584-1 / NF EN 60584-1			
Type		S		B	
Class		1		2	
Wire diameter (mm)		0.35 / 0.5			
TC		Single / Duplex			
TC mounting		Beaded, ceramic beads			
Length L1 Min/Max (mm)		300 to 2,000 mm			
Sealing sleeve		Stainless steel, diam.32 x 2mm, length 150mm			
External sheath	Material	Metal-Ceramic	Ceramic 610	Ceramic 530	Ceramic 710
	Diameter	22x 3 mm	24 x 2.5 mm	26 x 4 mm	24 x 3 mm
Internal sheath	Material	Ceramic 610		Alumina 710	
	Diameter	15 x 2 mm		15 x 2.5 mm	
Output	Head type	DIN A			
	Material	Light alloy			
	Output	1 cable gland M20x1.5			
	Cable diam.	5.5 to 7.5 mm			
	Equipment	Ceramic terminal strip			
	IP	IP54			
Accessories (p. 338)		Extension cables, compensation cables			

DESIGN YOUR SENSOR

CONFIGURATOR CODE

Parameters to be indicated when ordering. Example:

MODEL	TYPE	TCW	Ø WIRE	EXTERNAL SHEATH	LENGTH L1 (mm)	INTERNAL SHEATH	LENGTH LM (mm)	FASTENING	LENGTH L2 (mm)
CADID	J	1S	0.5	GD	1,000	FQ	200	001	500
Reference in table and DIAGRAM (MM)		1	1	2	3	4	5	6	7
Possible choice		1S 1B 2S 2B	0.35 0.5	Metal-Ceramic: GD Ceramic 610: FP Ceramic 530: FR Alumina 710: FQ	300 to 2,000	Ceramic 610: FP Alumina 710: FQ	LM > 150mm LM Standard: 200 mm	Without: 000 G3/4": 001 3/4"NPT: 002 Flange: as per table below	200 to 1,500

TABLE OF CONDUCTOR TYPE - WIRE DIAMETER

Conductor type		Conductor type °C		Tolerance values	Ø of wires (mm)
		Min.	Max.		
S	10% rhodium-platinum / Platinum	0	+1,600	1°C for t < 1100°C [1 + 0.003 x (t - 1100)] for t > 1100°C	0.35 0.5
	10% rhodium-platinum / 30% rhodium-platinum	+600	+1,700	1.5°C or 0.25% of t	0.35 0.5

FASTENING

Flange code	Material	EN1092-1		
		DN	PN	Face
405	316L	25	10/40	B1
400	316L	40	10/40	B1
413	316L	50	10/40	B1

CONNECTION ON TERMINAL STRIP

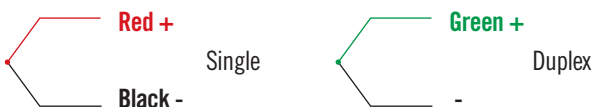
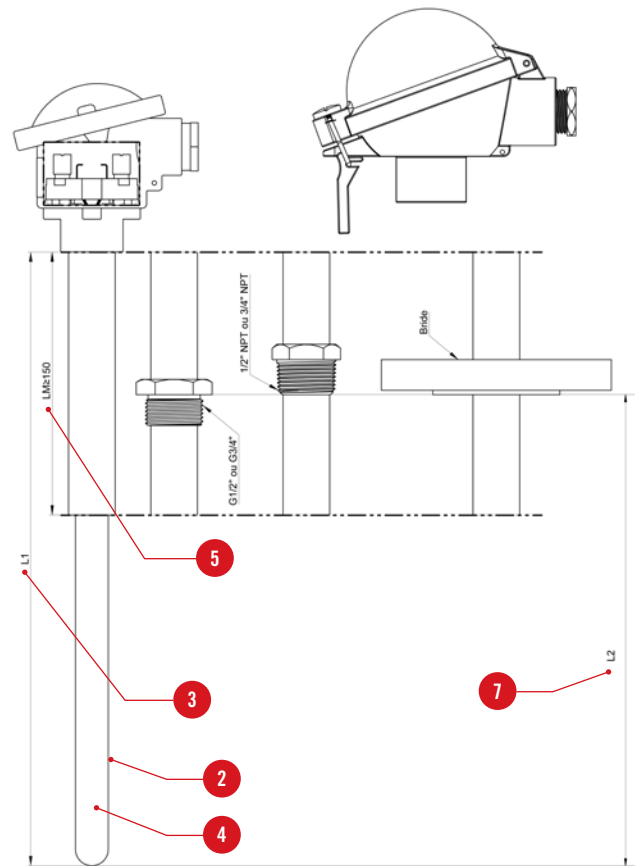


DIAGRAM (MM)



For any other configuration, please contact us.



CADID F

THERMOCOUPLE

IP
54CLASS
1IEC
584-1NF EN
60584-1

DESCRIPTION

Demountable straight temperature measurement assembly

SPECIFICATIONS

Model		CADID Type F	
Compliance with standards		IEC 584-1 / NF EN 60584-1	
Type		K	J
Class		1	
Wire diameter (mm)		1.5/ 2.3 / 3.0	1.5
TC		Single / Duplex	
TC mounting		Beaded, ceramic beads	
Length L1 Min/Max (mm)		300 to 2,000 mm	
Sleeve		Stainless steel, diam.1/2", length 200 mm	
		Metal, drilled from bar stock	
Protective tube	Material	Pure iron / 310 / 446 / INCONEL 600	
	Diameter	30 x 7 mm	
Output	Head type	DAN	DIN B
	Material	Light alloy	
	Output	1 cable gland M20x1.5	
	Cable diam.	5.5 to 7.5 mm	
	Equipment	Ceramic terminal strip (standard) Transmitter	
	IP	IP54	
Accessories (p. 338)		Extension cables, compensation cables	

DESIGN YOUR SENSOR

CONFIGURATOR CODE

Parameters to be indicated when ordering. Example:

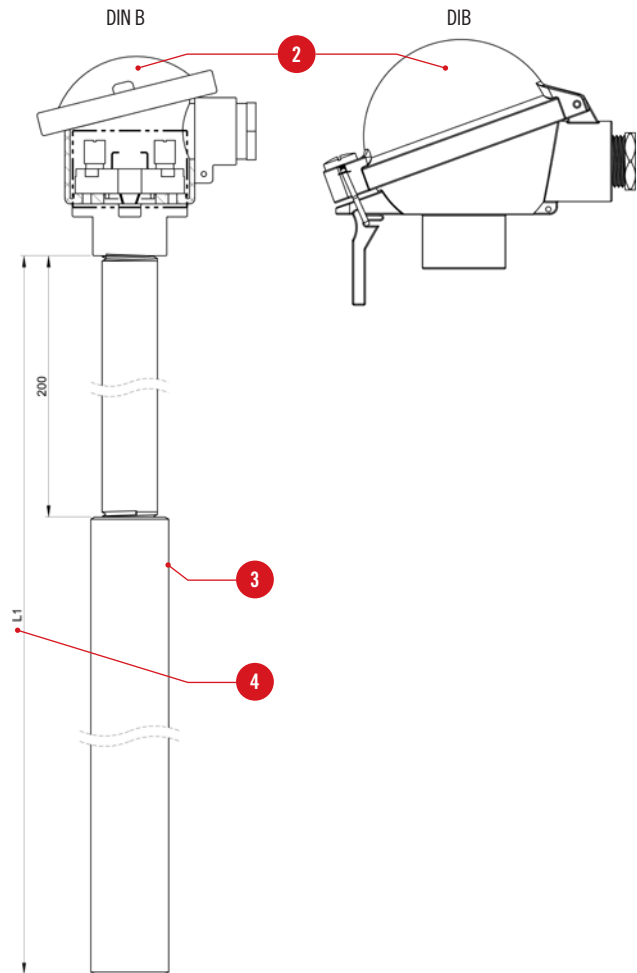
Parameters to be indicated when ordering. Example:

MODEL	TYPE	TC	Ø WIRE	HEAD	PROTECTIVE TUBE	LENGTH L1 (mm)	OPTION									
CADID	-	F	-	2J	-	1.5	-	DB	-	FF	-	450	-	C	-	0/150
Reference in table and DIAGRAM (MM)		1	1	2	3	4	5									
Possible choice		1J 1K 2J 2K	1.5 2.3 3.0	DIN B: DIB DAN: DAN	Pure iron: FF 310: BA 446: BB Inconel 600: CM	300 to 2,000	LC5334A-100: A LC5331A-321: B LC5335A-100: C									

TABLE OF CONDUCTOR TYPE - WIRE DIAMETER

Conductor type		Conductor type °C		Tolerance values	Ø of wires (mm)
		Min.	Max.		
J	Iron/ Copper-Nickel	-40	+750	1.5°C or 0.4% of t	1.5
K	Nickel- Chrome/ Nickel alloy	-40	+1,000	1.5°C or 0.4% of t	1.5 2.3 3.0

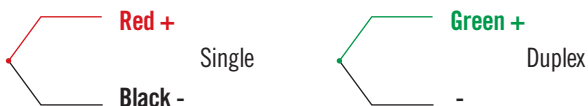
DIAGRAM (MM)



TRANSMITTER (1 TC ONLY) - OPTION

Transmitter			
Input	Output	Galvanic insulation	Reference
TC	4-20mA	1.5kV	LC5334A-100
TC + Pt100	4-20mA	1.5kV	LC5331A-321
TC + Pt100	4-20mA + HART	1.5kV	LC5335A-100

CONNECTION ON TERMINAL STRIP



For any other configuration, please contact us.



CADID G

THERMOCOUPLE

IP
54CLASS
1IEC
584-1NF EN
60584-1

DESCRIPTION

Demountable straight temperature measurement assembly

SPECIFICATIONS

Model		CADID Type G	
Compliance with standards		IEC 584-1 / NF EN 60584-1	
Type		K	S
Class		1	
Wire diameter (mm)		1.5	0.35 / 0.5
TC		Single / Duplex	
TC mounting		Beaded, ceramic beads	
Length L1 Min/Max (mm)		300 to 2,000 mm	
Sleeve		Stainless steel, diam.1/2", length 200mm	
		Metal, drilled from bar stock	
Protective tube	Material	Pure iron / 310 / 446 / INCONEL 600	
	Diameter	30 x 7 mm	
Internal sheath	Material	Ceramic 610	
	Diameter	15 x 2 mm	
Output	Head type	DAN	DIN B
	Material	Light alloy	
	Output	1 cable gland M20x1.5	
	Cable diam.	5.5 to 7.5 mm	
	Equipment	Ceramic terminal strip (standard) Transmitter	
	IP	IP54	
Accessories (p. 338)		Extension cables, compensation cables	

DESIGN YOUR SENSOR

CONFIGURATOR CODE

Parameters to be indicated when ordering. Example:

Parameters to be indicated when ordering. Example:

MODEL	TYPE	TC	Ø WIRE	HEAD	PROTECTIVE TUBE	LENGTH L1 (mm)	OPTION									
CADID	-	G	-	1S	-	0.35	-	DAN	-	BA	-	850	-	B	-	0/200
Reference in table and DIAGRAM (MM)		1	1	2	3	4	5									
Possible choice		1K 1S 2K 2S	0.35 0.5 2.3	DIN B: DIB DAN: DAN	Pure iron: FF 310: BA 446: BB Inconel 600: CM	300 to 2,000	LC5334A-100: A LC5331A-321: B LC5335A-100: C									

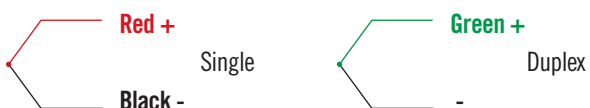
TABLE OF CONDUCTOR TYPE - WIRE DIAMETER

Conductor type		Conductor type °C		Tolerance values	Ø of wires (mm)
		Min.	Max.		
K	Nickel-Chrome / Nickel alloy	- 40	+ 1,000	1.5°C or 0.4% of t	1.5
S	10% rhodium-platinum / Platinum	0	+ 1,600	1°C for t < 1100°C [1 + 0.003 x (t- 1100)] for t > 1100°C	0.35 0.5

TRANSMITTER (1 TC ONLY) - OPTION

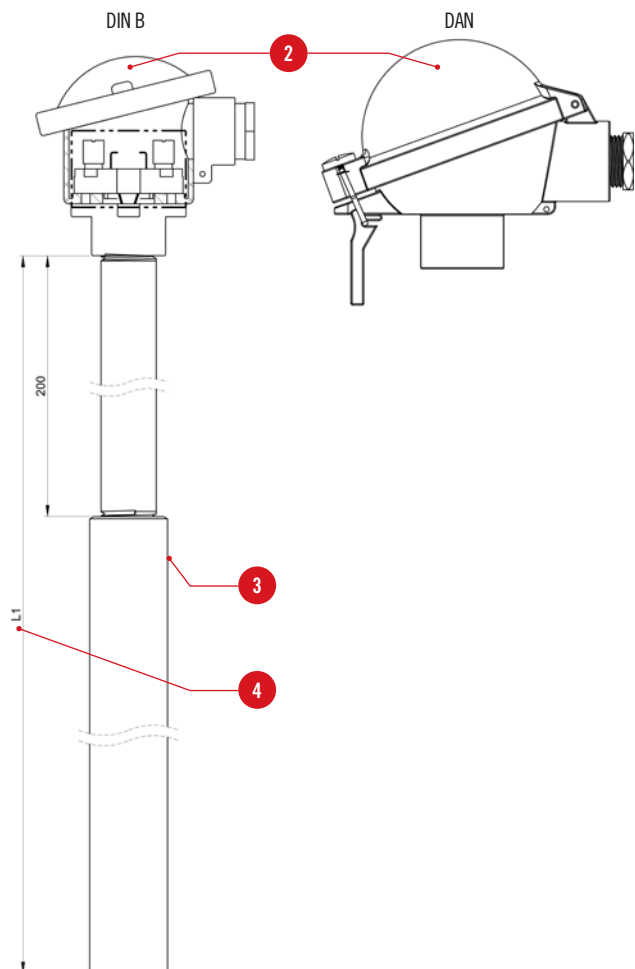
Transmitter			
Input	Output	Galvanic insulation	Reference
TC	4-20mA	1.5kV	LC5334A-100
TC + Pt100	4-20mA	1.5kV	LC5331A-321
TC + Pt100	4-20mA + HART	1.5kV	LC5335A-100

CONNECTION ON TERMINAL STRIP



For any other configuration, please contact us.

DIAGRAM (MM)



CADID LB

THERMOCOUPLE

IP
54CLASS
1IEC
584-1NF EN
60584-1up to
1050°C

DESCRIPTION

Demountable elbowed temperature measurement assembly

SPECIFICATIONS

Model		CADID Type LB	
Compliance with standards		IEC 584-1 / NF EN 60584-1	
Type		K	J
Class		1	
Wire diameter (mm)		1.5/ 2.3 / 3.0	1.5
TC		Single / Duplex	
Length L1 Min/Max (mm)		300 to 2,000 mm	
Length L2 Min/Max (mm)		150 to 1,000 mm	
Support tube		Stainless steel, diam.1/2"	
Protective tube		Necked welded	
		Material	304L / 310 / 316 / 446 / INCONEL 600
		Diameter	1/2" - 3/4"
Output		Head type	DAN DIN B
		Material	Light alloy
		Output	1 cable gland M20x1.5
		Cable diam.	5.5 to 7.5 mm
		Equipment	Ceramic terminal strip (standard) Transmitter
		IP	IP54
Accessories (p. 338)		Extension cables, compensation cables	

DESIGN YOUR SENSOR

CONFIGURATOR CODE

Parameters to be indicated when ordering. Example:

Parameters to be indicated when ordering. Example:

MODEL	TYPE	TC	Ø WIRE	HEAD	PROTECTIVE TUBE	Ø PROT.	LENGTH L1 (mm)	LENGTH L2 (mm)	OPTION	
CADID	- LB	- 1J	- 3.0	- DIB	- AB	- 1/2"	- 1,200	- 800	- A	- 0/150
Reference in table and DIAGRAM (MM)		1	1	2	3	4	5	6	7	
Possible choice		1J 1K 2J 2K	1.5 2.3 3.0	DIN B: DIB DAN: DAN	304L: AB 310: BA 316L: AC 446: BB Inconel 600: CM	1/2" 3/4"	300 to 2,000	150 to 1,000	LC5334A-100: A LC5331A-321: B LC5335A-100: C	

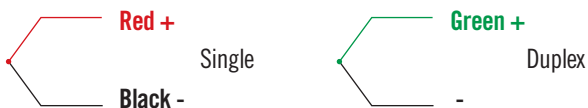
TABLE OF CONDUCTOR TYPE - WIRE DIAMETER

Conductor type		Conductor type °C		Tolerance values	Ø of wires (mm)
		Min.	Max.		
J	Iron / Copper-Nickel	- 40	+ 750	1.5°C or 0.4% of t	1.5
K	Nickel-Chrome / Nickel alloy	- 40	+ 1,000	1.5°C or 0.4% of t	1.5 2.3 3.0

TRANSMITTER (1 TC ONLY-WIRE 1.5 MM MAX) - OPTION

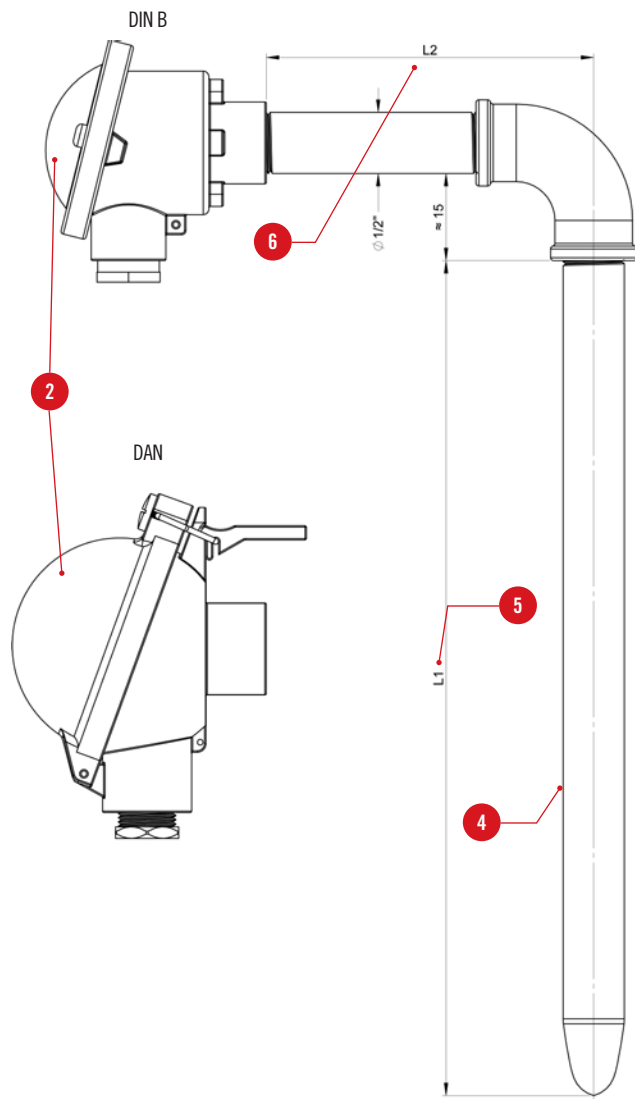
Transmitter			
Input	Output	Galvanic insulation	Reference
TC	4-20mA	1.5kV	LC5334A-100
TC + Pt100	4-20mA	1.5kV	LC5331A-321
TC + Pt100	4-20mA + HART	1.5kV	LC5335A-100

CONNECTION ON TERMINAL STRIP



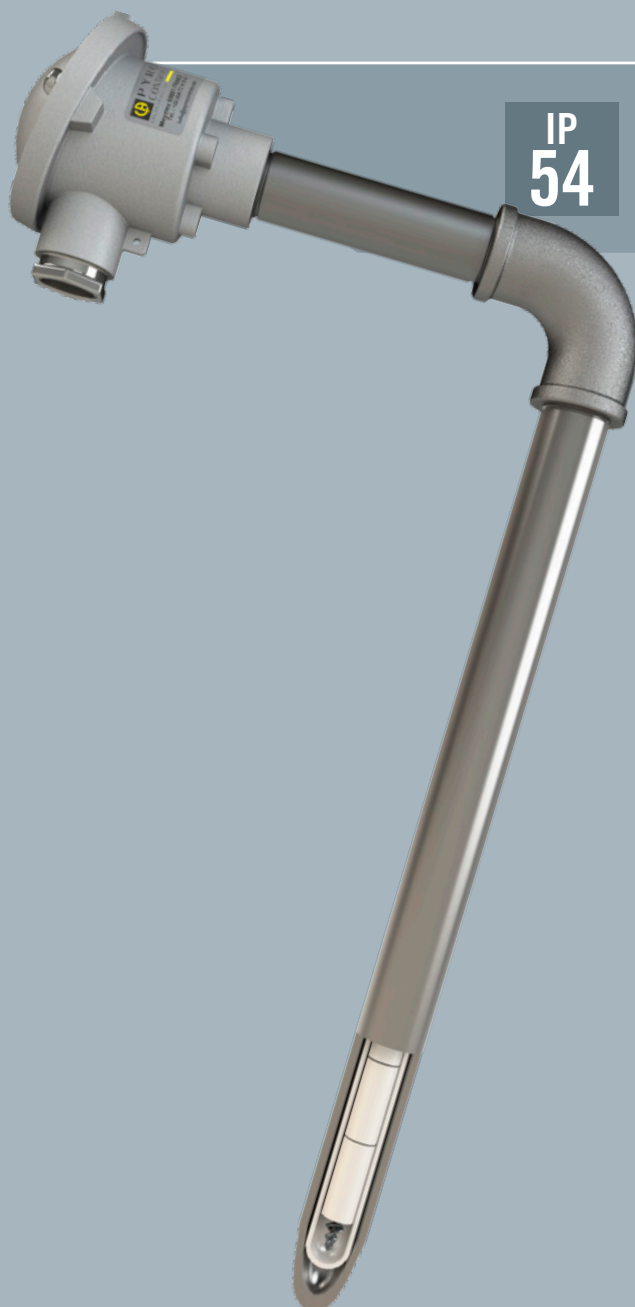
For any other configuration, please contact us.

DIAGRAM (MM)



CADID LC

THERMOCOUPLE

IP
54CLASS
1IEC
584-1NF EN
60584-1

DESCRIPTION

Demountable elbowed temperature measurement assembly

SPECIFICATIONS

Model		CADID Type LC	
Compliance with standards		IEC 584-1 / NF EN 60584-1	
Type		S	
Class		1	
Wire diameter (mm)		0.35 / 0.5	
TC		Single / Duplex	
Length L1 Min/Max (mm)		300 to 2,000 mm	
Length L2 Min/Max (mm)		150 to 1,000 mm	
Support tube		Stainless steel, diam.1/2"	
Internal sheath		Ceramic 610 Diam.10x1.5 mm	
		Necked welded	
Protective tube	Material	446 / INCONEL 600	
	Diameter	1/2" - 3/4"	
Output	Head type	DAN	DIN B
	Material	Light alloy	
	Output	1 cable gland M20x1.5	
	Cable diam.	5.5 to 7.5 mm	
	Equipment	Ceramic terminal strip (standard) Transmitter	
	IP	IP54	
Accessories (p. 338)		Extension cables, compensation cables	

DESIGN YOUR SENSOR

CONFIGURATOR CODE

Parameters to be indicated when ordering. Example:

Parameters to be indicated when ordering. Example:

MODEL	TYPE	TC	Ø WIRE	HEAD	PROTECTIVE TUBE	Ø PROT.	LENGTH L1 (mm)	LENGTH L2 (mm)	OPTION	
CADID	LC	1S	0.5	DAN	BA	1/2"	570	450	A	0/150
Reference in table and DIAGRAM (MM)		1	1	2	3	4	5	6	7	
Possible choice		1S 2S	0.35 0.5	DIN B: DIB DAN: DAN	310: BA 446: BB Inconel 600: CM	1/2" 3/4"	300 to 2,000	150 to 1,000	LC5334A-100: A LC5331A-321: B LC5335A-100: C	

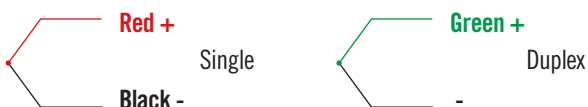
TABLE OF CONDUCTOR TYPE - WIRE DIAMETER

Conductor type		Conductor type °C		Tolerance values	Ø of wires (mm)
		Min.	Max.		
S	10% rhodium-platinum / Platinum	0	+ 1,600	1°C for t < 1100°C [1 + 0.003 x (t-1100)] for t > 1100°C	0.35 0.5

TRANSMITTER (1 TC ONLY) - OPTION

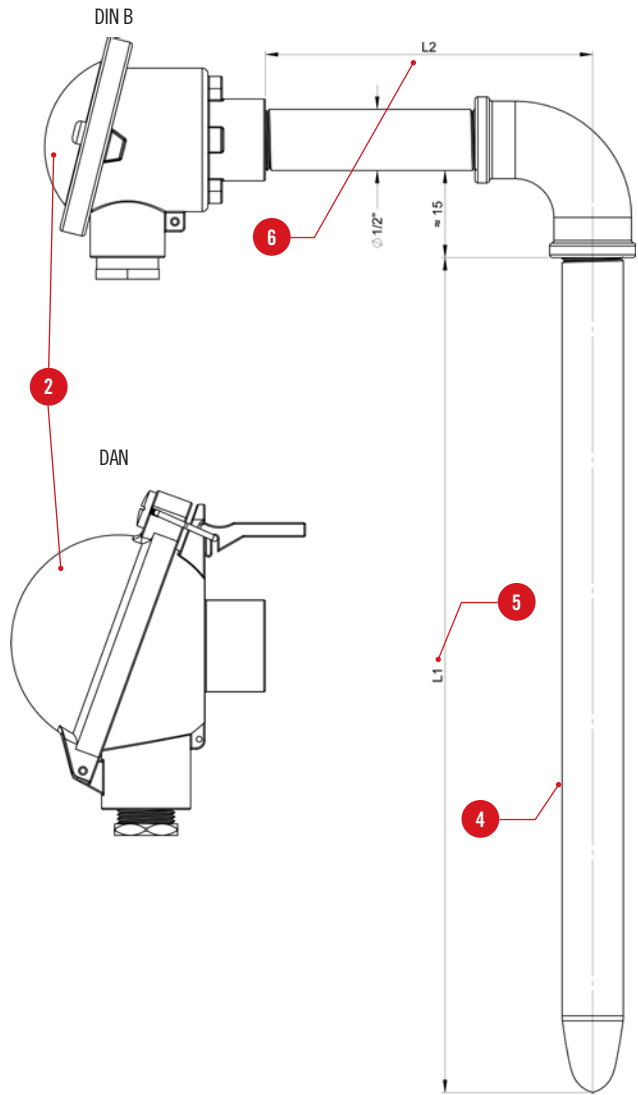
Transmitter			
Input	Output	Galvanic insulation	Reference
TC	4-20mA	1.5kV	LC5334A-100
TC + Pt100	4-20mA	1.5kV	LC5331A-321
TC + Pt100	4-20mA + HART	1.5kV	LC5335A-100

CONNECTION ON TERMINAL STRIP



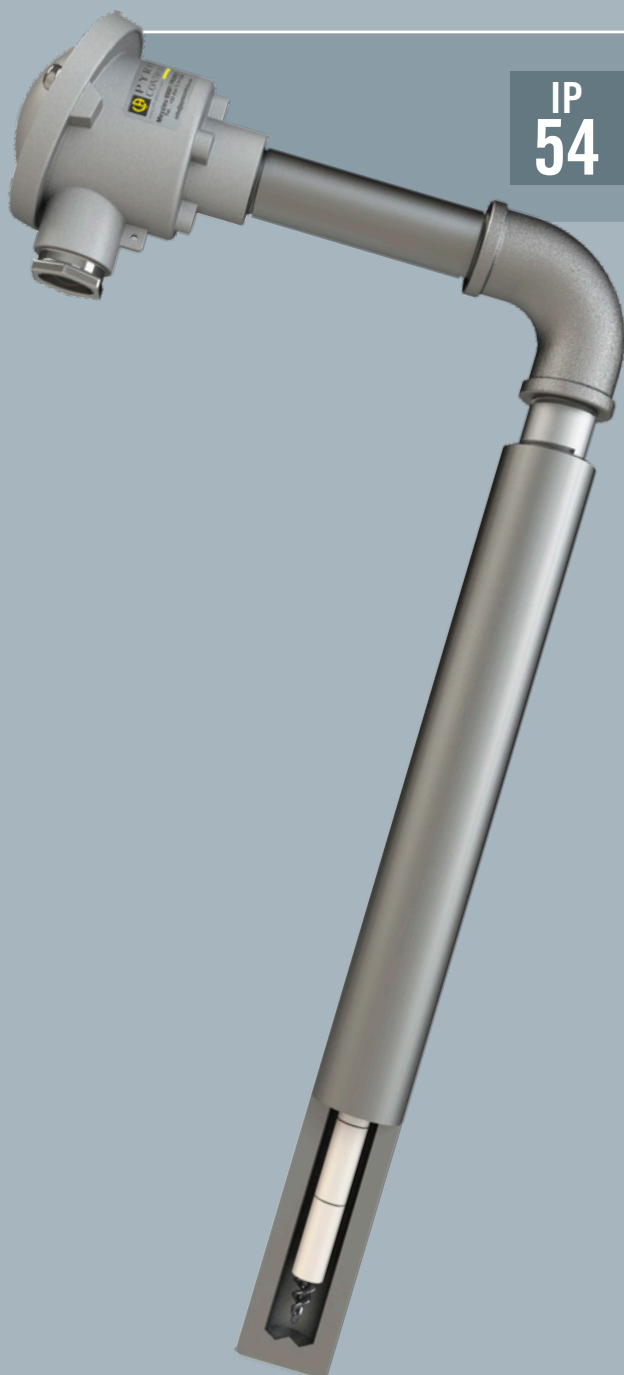
For any other configuration, please contact us.

DIAGRAM (MM)



CADID LD

THERMOCOUPLE

IP
54CLASS
1IEC
584-1NF EN
60584-1

DESCRIPTION

Demountable elbowed temperature measurement assembly

CARACTÉRISTIQUES

Model		CADID Type LD	
Compliance with standards		IEC 584-1 / NF EN 60584-1	
Type		K	J
Class		1	
Wire diameter (mm)		1.5/ 2.3 / 3.0	1.5
TC		Single / Duplex	
Length L1 Min/Max (mm)		300 to 2,000 mm	
Length L2 Min/Max (mm)		150 to 1,000 mm	
Support tube		Stainless steel, diameter 1/2"	
		Metal, drilled from bar stock	
Protective tube	Material	Pure iron / 310 / 446 / INCONEL 600	
	Diameter	30 x 7 mm	
Output	Head type	DAN	DIN B
	Material	Light alloy	
	Output	1 cable gland M20x1.5	
	Cable diam.	5.5 to 7.5 mm	
	Equipment	Ceramic terminal strip (standard) Transmitter	
	IP	IP54	
Accessories (p. 338)		Extension cables, compensation cables	

DESIGN YOUR SENSOR

CONFIGURATOR CODE

Parameters to be indicated when ordering. Example:

Parameters to be indicated when ordering. Example:

MODEL	TYPE	TC	Ø WIRE	HEAD	PROTECTIVE TUBE	LENGTH L1 (mm)	LENGTH L2 (mm)	OPTION	
CADID	LD	1K	3.0	DIB	BA	590	150	B	0/150
Reference in table and DIAGRAM (MM)		1	1	2	3	4	5	6	
Possible choice		1J / 1K 2J / 2K	1.5 2.3 3.0	DIN B: DIB DAN: DAN	310: BA 446: BB Inconel 600: CM Pure iron: FF	300 to 2,000	100 to 1,000	LC5334A-100: A LC5331A-321: B LC5335A-100: C	

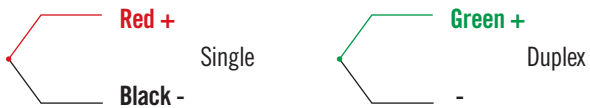
TABLE OF CONDUCTOR TYPE - WIRE DIAMETER

Conductor type		Conductor type °C		Tolerance values	Ø of wires (mm)
		Min.	Max.		
J	Iron / Copper-Nickel	- 40	+ 750	1.5°C or 0.4% of t	1.5
K	Nickel-Chrome / Nickel	- 40	+ 1,000	1.5°C or 0.4% of t	1.5 2.3 3.0

TRANSMITTER (1 TC ONLY) - OPTION

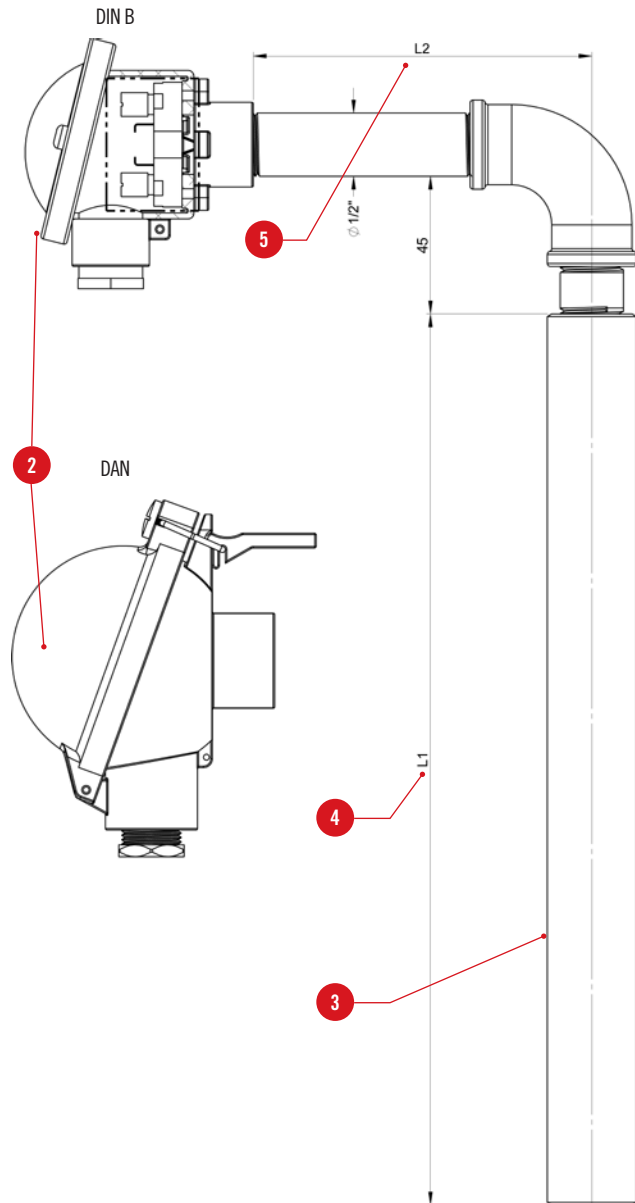
Transmitter			
Input	Output	Galvanic insulation	Reference
TC	4-20mA	1.5kV	LC5334A-100
TC + Pt100	4-20mA	1.5kV	LC5331A-321
TC + Pt100	4-20mA + HART	1.5kV	LC5335A-100

CONNECTION ON TERMINAL STRIP



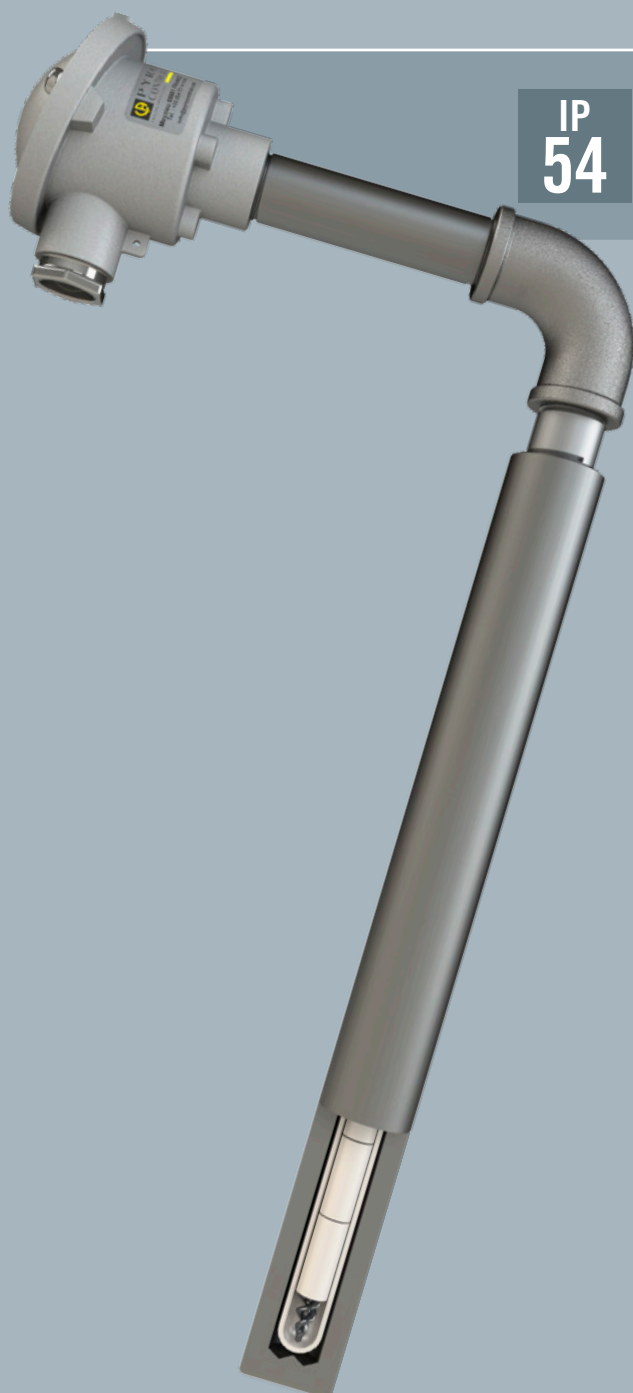
For any other configuration, please contact us.

DIAGRAM (MM)



CADID LE

THERMOCOUPLE



IP
54

CLASS
1

IEC
584-1

NF EN
60584-1



DESCRIPTION

Demountable elbowed temperature measurement assembly

SPECIFICATIONS

Model		CADID Type LE	
Compliance with standards		IEC 584-1 / NF EN 60584-1	
Type		K	S
Class		1	
Wire diameter (mm)		1.5	0.35 / 0.5
TC		Single / Duplex	
TC mounting		Beaded, ceramic beads	
Length L1 Min/Max (mm)		300 to 2,000 mm	
Length L2 Min/Max (mm)		150 to 1,000 mm	
Support tube		Stainless steel, diameter 1/2"	
Protective tube		Metal, drilled from bar stock	
	Material	Pure iron / 310 / 446 / INCONEL 600	
	Diameter	30 x 7 mm	
Internal sheath	Material	Ceramic 610	
	Diameter	15 x 2 mm	
Output	Head type	DAN	DIN B
	Material	Light alloy	
	Output	1 cable gland M20x1.5	
	Cable diam.	5.5 to 7.5 mm	
	Equipment	Ceramic terminal strip (standard) Transmitter	
	IP	IP54	
Accessories (p. 338)		Extension cables, compensation cables	

DESIGN YOUR SENSOR

CONFIGURATOR CODE

Parameters to be indicated when ordering. Example:

Parameters to be indicated when ordering. Example:

MODEL	TYPE	TC	Ø WIRE	HEAD	PROTECTIVE TUBE	LENGTH L1 (mm)	LENGTH L2 (mm)	OPTION	
CADID	LE	2S	0.35	DAN	BB	1,800	300	-	-
Reference in table and DIAGRAM (MM)		1	1	2	3	4	5	6	7
Possible choice		1K 1S 2K 2S	0.35 0.5 1.5	DIN B: DIB DAN: DAN	Pure iron: FF 310: BA 446: BB Inconel 600: CM	300 to 2,000	150 to 1,000	LC5334A-100: A LC5331A-321: B LC5335A-100: C	

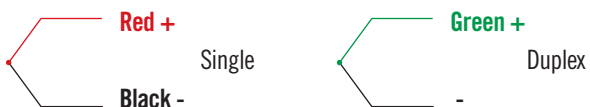
TABLE OF CONDUCTOR TYPE - WIRE DIAMETER

Conductor type		Conductor type °C		Tolerance values	Ø of wires (mm)
		Min.	Max.		
K	Nickel-Chrome / Nickel	- 40	+ 1,000	1.5°C or 0.4% of t	1.5
S	10% rhodium-platinum / Platinum	0	+ 1,600	1°C for t < 1100°C [1 + 0.003 x (t-1100)] for t > 1100°C	0.35 0.5

TRANSMITTER (1 TC ONLY) - OPTION

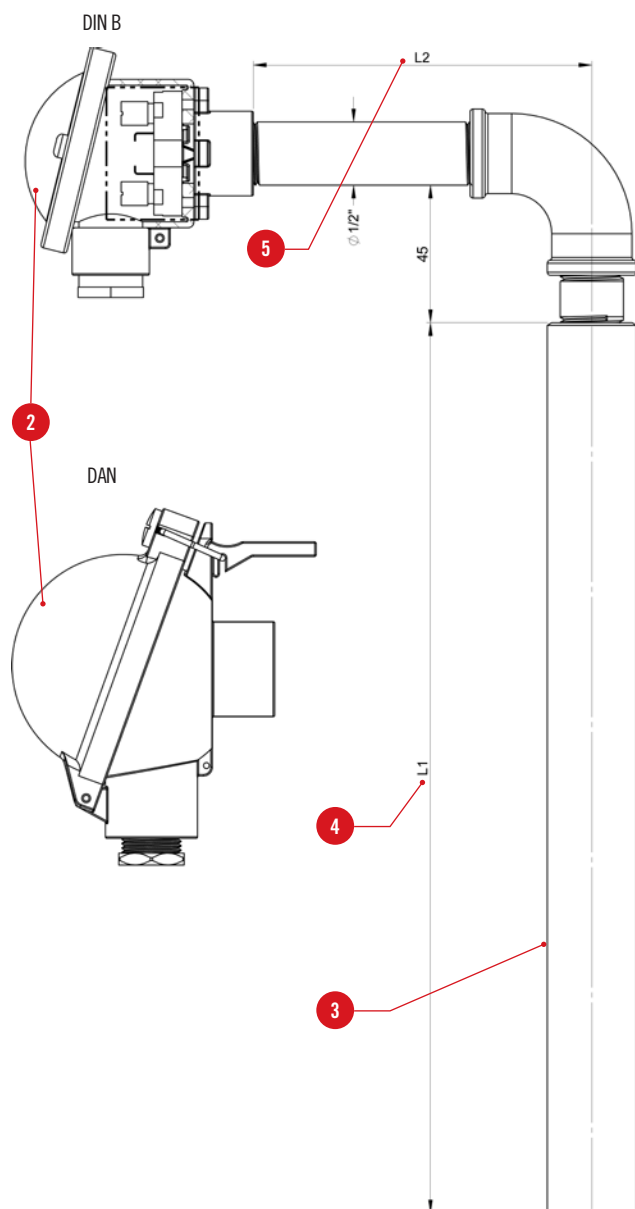
Transmitter			
Input	Output	Galvanic insulation	Reference
TC	4-20mA	1.5kV	LC5334A-100
TC + Pt100	4-20mA	1.5kV	LC5331A-321
TC + Pt100	4-20mA + HART	1.5kV	LC5335A-100

CONNECTION ON TERMINAL STRIP



For any other configuration, please contact us.

DIAGRAM (MM)



CADID XB

THERMOCOUPLE

IP
54CLASS
1IEC
584-1NF EN
60584-1

DESCRIPTION

Bent temperature measurement assembly

SPECIFICATIONS

Model		CADID Type XB		
Compliance with standards		IEC 584-1 / NF EN 60584-1		
Type		K	J	
Class		1		
Wire diameter (mm)		1.5/ 2.3 / 3.0	1.5	
TC		Single / Duplex		
Length L1 Min/Max (mm)		300 to 1,000 mm		
Length L2 Min/Max (mm)		250 to 400 mm		
Length L3 Min/Max (mm)		0 (protective tube diam. 1/2" only) to 505 mm		
Support tube		Stainless steel, diam.1/2".		
Protective tube		Necked, welded and bent		
		Bending radius	R=45 for tube diam.1/2" ; R=60 for tube diam.3/4"	
		Bending angle	90°	
		Material	304L / 310 / 446 / INCONEL 600	
		Diameter	1/2" - 3/4"	
Sortie		Head type	DAN	DIN B
		Material	Light alloy	
		Output	1 cable gland M20x1.5	
		Cable diam.	5.5 to 7.5 mm	
		Equipment	Ceramic terminal strip (standard) Transmitter	
		IP	IP54	
Accessoires (p. 338)		Extension cables, compensation cables		

DESIGN YOUR SENSOR

CONFIGURATOR CODE

Parameters to be indicated when ordering. Example:

MODEL	TYPE	TC	WIRE	HEAD	PROTECTIVE TUBE	Ø PROT.	LENGTH L1 (mm)	LENGTH L2 (mm)	LENGTH L3 (mm)	OPTION	
CADID	- XB	- 1J	- 1.5	- DAN	- AB	- 1/2"	- 720	- 290	- 200	- A	- 0/150
Reference in table and DIAGRAM (MM)		1	1	2	3	4	5	6	7	8	
Possible choice		1J 1K 2J 2K	1.5 2.3 3.0	DIN B: DIB DAN: DAN	304L: AB 310: BA 316: AC 446: BB Inconel 600: CM	1/2" 3/4"	300 to 1,000	250 to 400	0 to 505	LC5334A-100: A LC5331A-321: B LC5335A-100: C	

TABLE OF CONDUCTOR TYPE - WIRE DIAMETER

Conductor type		Conductor type °C		Tolerance values	Ø of wires (mm)
		Min.	Max.		
J	Iron / Copper-Nickel	- 40	+ 750	1.5°C or 0.4% of t	1.5
K	Nickel-Chrome / Nickel	- 40	+ 1,000	1.5°C or 0.4% of t	1.5 2.3 3.0

TRANSMITTER (1 TC ONLY) - OPTION

Transmitter			
Input	Output	Galvanic insulation	Reference
TC	4-20mA	1.5kV	LC5334A-100
TC + Pt100	4-20mA	1.5kV	LC5331A-321
TC + Pt100	4-20mA + HART	1.5kV	LC5335A-100

CONNECTION ON TERMINAL STRIP

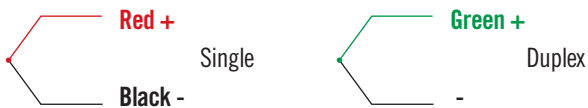
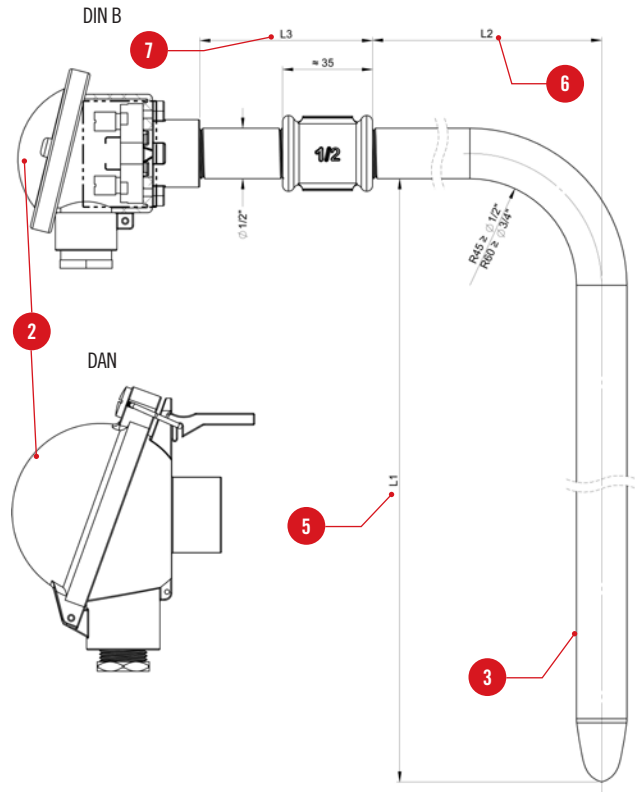
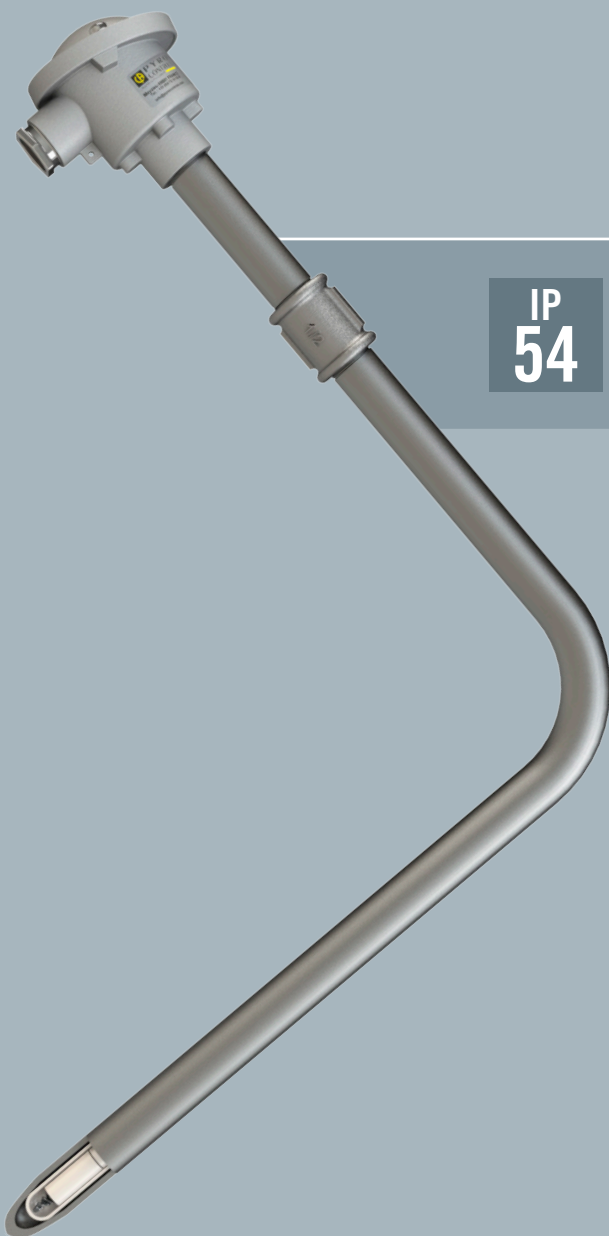


DIAGRAM (MM)



For any other configuration, please contact us.



CADID XC

THERMOCOUPLE

IP
54CLASS
1IEC
584-1NF EN
60584-1

DESCRIPTION

Bent temperature measurement assembly

SPECIFICATIONS

Model		CADID Type XC	
Compliance with standards		IEC 584-1 / NF EN 60584-1	
Type		S	
Class		1	
Wire diameter (mm)		0.35 / 0.5	
TC		Single / Duplex	
Length L1 Min/Max (mm)		300 to 1,000 mm	
Length L2 Min/Max (mm)		250 to 400 mm	
Length L3 Min/Max (mm)		0 (protective tube diam. 1/2" only) to 505 mm	
Support tube		Stainless steel, diam. 1/2".	
Internal sheath		Ceramic 610, diam. 10x1.5 mm	
Protective tube		Necked, welded and bent	
	Bending radius	R=45 for tube diam. 1/2" ; R=60 for tube diam. 3/4"	
	Bending angle	90°	
	Material	310 / 446 / INCONEL 600	
Sortie	Diameter	1/2" - 3/4"	
	Head type	DAN	DIN B
	Material	Light alloy	
	Output	1 cable gland M20x1.5	
	Cable diam.	5.5 to 7.5 mm	
	Equipment	Ceramic terminal strip (standard) Transmitter	
		IP	IP54
Accessoires (p. 338)		Câbles d'extension, câbles de compensation	

DESIGN YOUR SENSOR

CONFIGURATOR CODE

Parameters to be indicated when ordering. Example:

Parameters to be indicated when ordering. Example:

MODEL	TYPE	TC	Ø WIRE	HEAD	PROTECTIVE TUBE	Ø PROT.	LENGTH L1 (mm)	LENGTH L2 (mm)	LENGTH L3 (mm)	OPTION												
CADID	-	XC	-	1S	-	0.5	-	DIB	-	BB	-	3/4"	-	700	-	300	-	200	-	C	-	0/200
Reference in table and DIAGRAM (MM)		1	1	2	3	4	5	6	7	8												
Possible choice		1S 2S	0.35 0.5	DIN B: DIB DAN: DAN	310: BA 446: BB Inconel 600: CM	1/2" 3/4"	300 to 1,000	250 to 400	0 to 505	LC5334A-100: A LC5331A-321: B LC5335A-100: C												

TABLE OF CONDUCTOR TYPE - WIRE DIAMETER

Conductor type		Conductor type °C		Tolerance values	Ø of wires (mm)
		Min.	Max.		
S	10% rhodium-platinum / Platinum	0	+ 1,600	1°C for t < 1100°C [1 + 0.003 x (t-1100)] for t > 1100°C	0.35 0.5

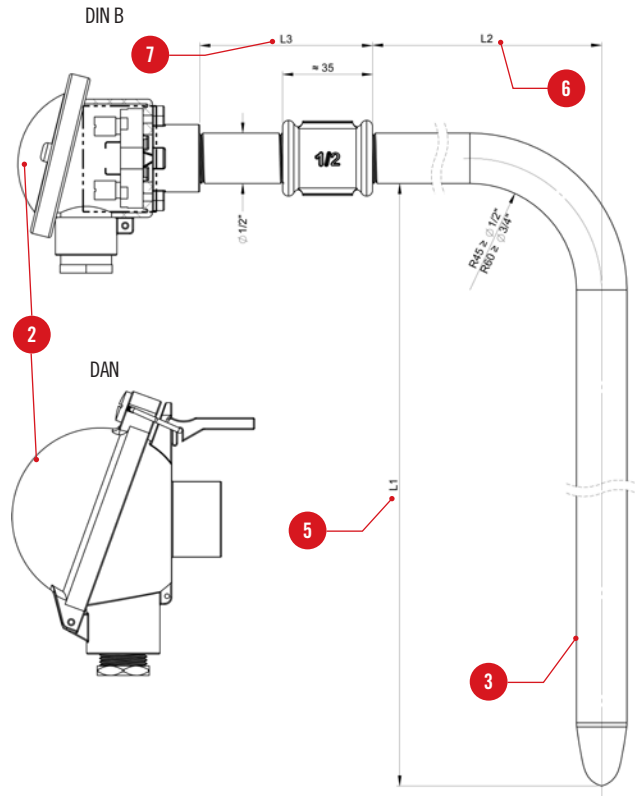
TRANSMITTER (1 TC ONLY) - OPTION

Transmitter			
Input	Output	Galvanic insulation	Reference
TC	4-20mA	1.5kV	LC5334A-100
TC + Pt100	4-20mA	1.5kV	LC5331A-321
TC + Pt100	4-20mA + HART	1.5kV	LC5335A-100

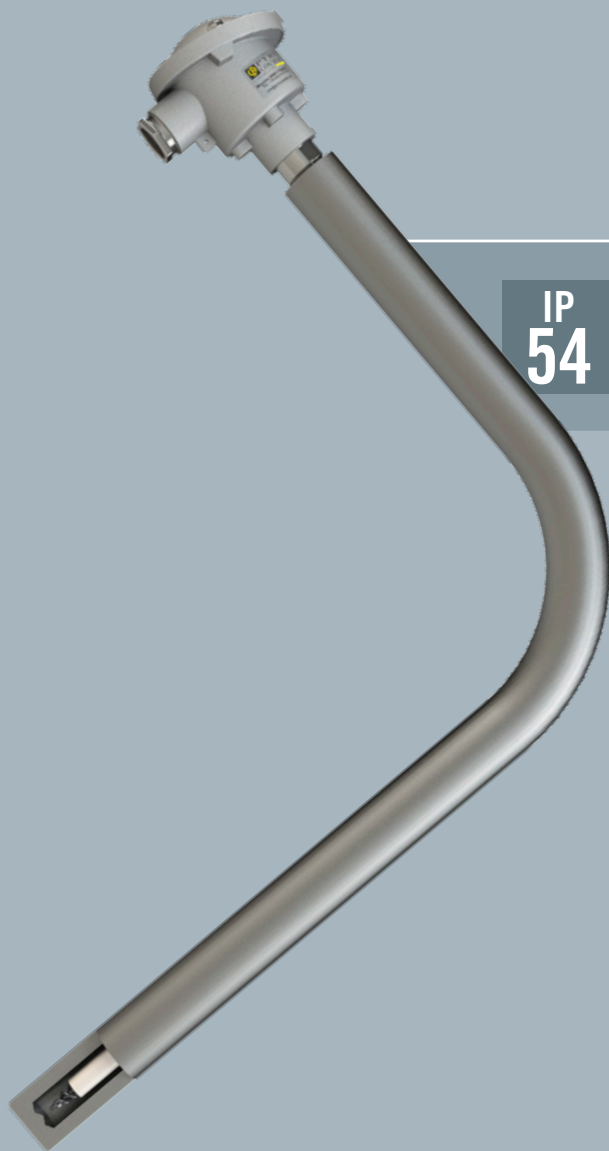
CONNECTION ON TERMINAL STRIP



DIAGRAM (MM)



For any other configuration, please contact us.



CADID XD

THERMOCOUPLE

IP
54

CLASS
1

IEC
584-1

NF EN
60584-1



DESCRIPTION

Bent temperature measurement assembly

SPECIFICATIONS

Model		CADID Type XD	
Compliance with standards		IEC 584-1 / NF EN 60584-1	
Type		K	J
Class		1	
Wire diameter (mm)		1.5/ 2.3 / 3.0	1.5
TC		Single / Duplex	
Length L1 Min/Max (mm)		300 to 1,000 mm	
Length L2 Min/Max (mm)		250 to 400 mm	
Length L3 Min/Max (mm)		40 to 470 mm	
Support tube		Stainless steel, diam.1/2".	
Protective tube		Bored and bent	
	Bend radius	R=70	
	Bend angle	90°	
	Material	Pure IRON / 310 / 446 / INCONEL 600	
Output	Diameter	30 x 7 mm	
	Head type	DAN	DIN B
	Material	Light alloy	
	Output	1 cable gland M20x1.5	
	Cable diam.	5.5 to 7.5 mm	
	Equipment	Ceramic terminal strip (standard) Transmitter	
		IP	IP54
Accessories (p. 338)		Extension cables, compensation cables	

DESIGN YOUR SENSOR

CONFIGURATOR CODE

Parameters to be indicated when ordering. Example:

Parameters to be indicated when ordering. Example:

MODEL	TYPE	TC	Ø WIRE	HEAD	PROTECTIVE TUBE	LENGTH L1 (mm)	LENGTH L2 (mm)	LENGTH L3 (mm)	OPTION	
CADID	- XD	- 1J	- 2.3	- DAN	- FF	- 450	- 300	- 70	- A	- 0/150
Reference in table and DIAGRAM (MM)		1	1	2	3	4	5	6	7	
Possible choice		1J 1K 2J 2K	1.5 2.3 3.0	DIN B: DIB DAN: DAN	PURE IRON: FF 310: BA 446: BB Inconel 600: CM	300 to 1,000	250 to 400	40 to 470	LC5334A-100: A LC5331A-321: B LC5335A-100: C	

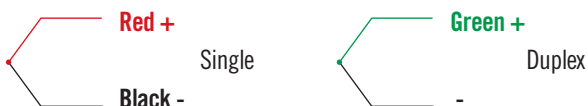
TABLE OF CONDUCTOR TYPE - WIRE DIAMETER

Conductor type		Conductor type °C		Tolerance values	Ø of wires (mm)
		Min.	Max.		
J	Iron / Copper-Nickel	- 40	+ 750	1.5°C or 0.4% of t	1.5
K	Nickel-Chrome / Nickel	- 40	+ 1,000	1.5°C or 0.4% of t	1.5 2.3 3.0

TRANSMITTER (1 TC ONLY) - OPTION

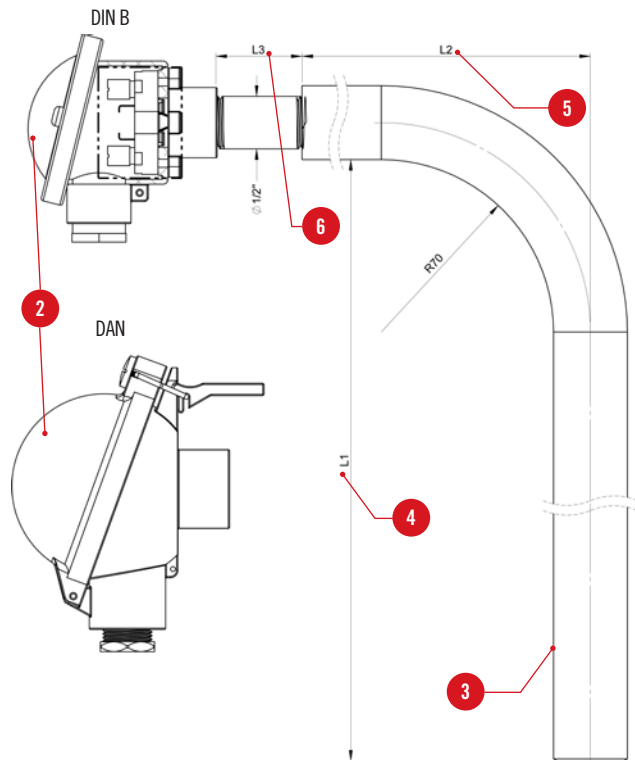
Transmitter			
Input	Output	Galvanic insulation	Reference
TC	4-20mA	1.5kV	LC5334A-100
TC + Pt100	4-20mA	1.5kV	LC5331A-321
TC + Pt100	4-20mA + HART	1.5kV	LC5335A-100

CONNECTION ON TERMINAL STRIP



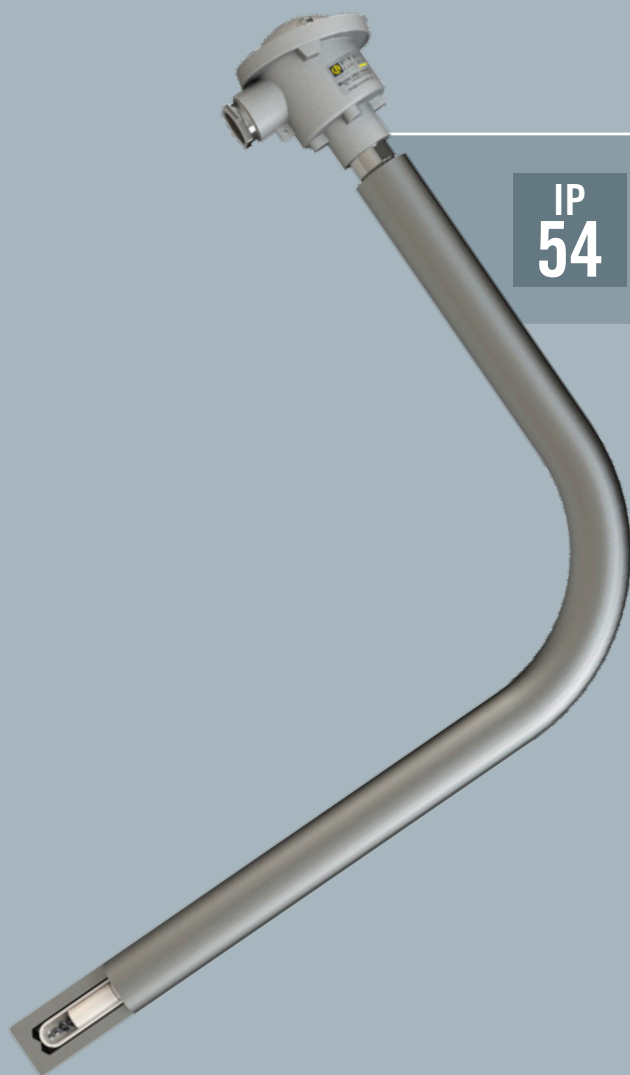
For any other configuration, please contact us.

DIAGRAM (MM)



CADID XE

THERMOCOUPLE

IP
54CLASS
1IEC
584-1NF EN
60584-1

DESCRIPTION

Bent temperature measurement assembly

SPECIFICATIONS

Model		CADID Type XE	
Compliance with standards		IEC 584-1 / NF EN 60584-1	
Type		K	S
Class		1	
Wire diameter (mm)		1.5	0.35 / 0.5
TC		Single / Duplex	
TC mounting		Beaded, ceramic beads	
Length L1 Min/Max (mm)		300 to 1,000 mm	
Length L2 Min/Max (mm)		250 to 400 mm	
Length L3 Min/Max (mm)		40 to 470 mm	
Support tube		Stainless steel, diam.1/2".	
Protective tube		Metal, drilled from bar stock	
	Bend radius	R=70	
	Bend angle	90°	
	Material	Pure iron / 310 / 446 / INCONEL 600	
Internal sheath	Diameter	30 x 7 mm	
	Material	Ceramic 610	
Output	Diameter	15 x 2 mm	
	Head type	DAN	DIN B
	Material	Light alloy	
	Output	1 cable gland M20x1.5	
	Cable diam.	5.5 to 7.5 mm	
	Equipment	Ceramic terminal strip (standard) Transmitter	
Accessories (p. 338)		IP54	
		Extension cables, compensation cables	

DESIGN YOUR SENSOR

CONFIGURATOR CODE

Parameters to be indicated when ordering. Example:

Parameters to be indicated when ordering. Example:

MODEL	TYPE	TC	Ø WIRE	HEAD	PROTECTIVE TUBE	LENGTH L1 (mm)	LENGTH L2 (mm)	LENGTH L3 (mm)	OPTION	
CADID	XE	1K	1.5	DAN	FF	720	300	50	B	0/200
Reference in table and DIAGRAM (MM)		1	1	2	3	4	5	6	7	
Possible choice		1K 1S 2K 2S	0.35 0.5 1.5	DIN B: DIB DAN: DAN	Pure IRON: FF 310: BA 446: BB Inconel 600: CM	300 to 1,000	250 to 400	40 to 470	LC5334A-100: A LC5331A-321: B LC5335A-100: C	

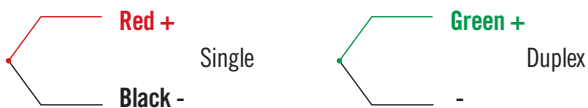
TABLE OF CONDUCTOR TYPE - WIRE DIAMETER

Conductor type		Conductor type °C		Tolerance values	Ø of wires (mm)
		Min.	Max.		
K	Nickel-Chrome / Nickel	-40	+1,000	1.5°C or 0.4% of t	1.5
S	10% rhodium-platinum / Platinum	0	+1,600	1°C for t < 1100°C [1 + 0.003 x (t-1100)] for t > 1100°C	0.35 0.5

TRANSMITTER (1 TC ONLY) - OPTION

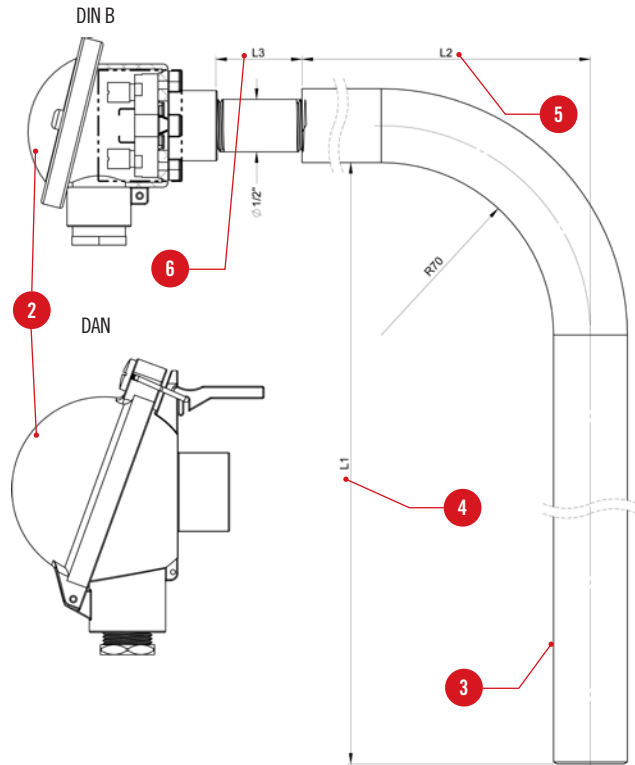
Transmitter			
Input	Output	Galvanic insulation	Reference
TC	4-20mA	1.5kV	LC5334A-100
TC + Pt100	4-20mA	1.5kV	LC5331A-321
TC + Pt100	4-20mA + HART	1.5kV	LC5335A-100

CONNECTION ON TERMINAL STRIP



For any other configuration, please contact us.

DIAGRAM (MM)





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