

1600°C



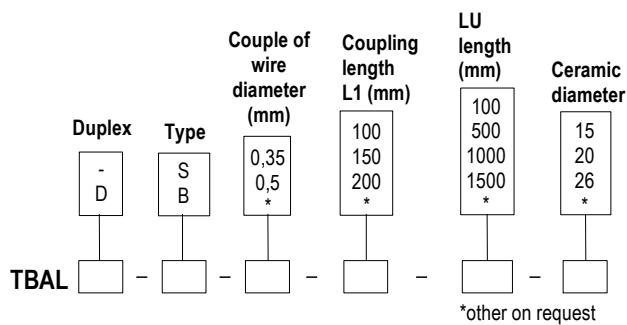
**Thermocouple S or B sensor for high temperature with ceramic protection.**

## TBAL S / TBALD S

- Thermocouple S or B.
- Measuring range : up to +1600°C.
- Mounting with alumina sheath

### Part numbers

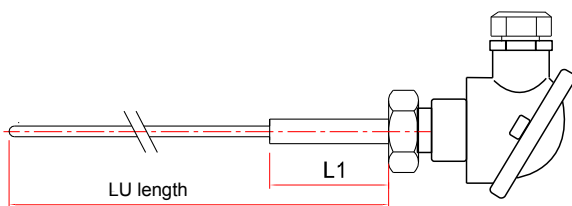
To order, just add the codes to complete the part number.



**Example : TBAL-S-35-100-500-15**

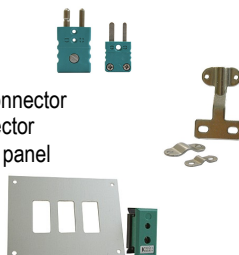
**Model :** Thermocouple type S, with a couple of wire of 0.35 mm Ø. Contact tip diameter 15 mm with coupling of 100 mm length and ceramic of 400 mm length. LU is 500 mm.

### Dimensions



### Accessories (See data sheet)

- Extension cable
- Compensating cable
- Standard or miniature connector
- Cable seal for plug and socket connector
- Miniature or standard fixed connector
- Miniature or standard connectors panel
- Extension lead
- Converters



### Technical features

Maximum operating temperature...+1600°C

Accuracy\*.....± 0,0025 | t |

Contact tip.....Coupling Ø according to ceramic sheath (customized length)  
Pure APF 710 sintered alumina sheath  
Customized Ø according to application  
Couple of wires 0,35 or 0,5 mm Ø

Connection head.....Aluminium alloy (120°C max)  
Steel cable gland : M20 x 150  
IP 54 protection

Storage temperature.....from -20°C to +80°C

### Tolerances\* of the probe

As per IEC 584-3 norm

TC	Measuring range Class1	Tolerance
S	From 0°C to +1600°C	From 0 to +1100°C ± 1°C From 1100°C to 1600°C ± (1+0.003*(T°-1100))
B	From 0°C to +1700°C	From 600°C to 1700°C ± 0.0025 x T° abs

\* Performed in laboratory conditions, the above accuracies mentioned in this document will be guaranteed, provided that you use the calibration compensation data or identical calibration conditions.

### Most common thermocouple types

Thermocouple type	+ conductor	- conductor	Color of compensating cable
S	Platinum- Rhodium 10%	Platinum	Ext. color + = orange, - = white
B	Platinum- Rhodium 30%	Platinum- Rhodium 6%	Ext color + = grey, - = white

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