

# Spring-Loaded Probes

## Industrial Process Styles



Cut-away of NB2 style to show detail of spring mechanism and terminal block.

- ✓ Non-Sealed for Use in Thermowells
- ✓ NB1 Cast Iron or NB2 Miniature Aluminum Protection Head
- ✓ Approx. 13 mm (½") of Travel Length
- ✓ 300 mm (12") Standard Length†
- ✓ Spring-Loading Provides Tip Contact for Faster Response When Used with Thermowells



**To Order Visit [newportUS.com/NB1\\_JKET](http://newportUS.com/NB1_JKET) for Pricing and Details**

Thermocouple Alloy	Sheath Dia. mm (in)	Cast Iron Head	Aluminum Head
<b>J</b> IRON-CONSTANTAN Inconel Sheath	1.5 (⅛)	NB1-ICIN-116(*)-12-TBSL	NB2-ICIN-116(*)-12-TBSL
	3.0 (⅜)	NB1-ICIN-18(*)-12-TBSL	NB2-ICIN-18(*)-12-TBSL
	4.5 (⅝)	NB1-ICIN-316(*)-12-TBSL	NB2-ICIN-316(*)-12-TBSL
	6.0 (¼)	NB1-ICIN-14(*)-12-TBSL	NB2-ICIN-14(*)-12-TBSL
<b>J</b> IRON-CONSTANTAN 304 SS Sheath	1.5 (⅛)	NB1-ICSS-116(*)-12-TBSL	NB2-ICSS-116(*)-12-TBSL
	3.0 (⅜)	NB1-ICSS-18(*)-12-TBSL	NB2-ICSS-18(*)-12-TBSL
	4.5 (⅝)	NB1-ICSS-316(*)-12-TBSL	NB2-ICSS-316(*)-12-TBSL
	6.0 (¼)	NB1-ICSS-14(*)-12-TBSL	NB2-ICSS-14(*)-12-TBSL
<b>K</b> CHROME <sup>®</sup> **ALOMEGA <sup>®</sup> Inconel Sheath	1.5 (⅛)	NB1-CAIN-116(*)-12-TBSL	NB2-CAIN-116(*)-12-TBSL
	3.0 (⅜)	NB1-CAIN-18(*)-12-TBSL	NB2-CAIN-18(*)-12-TBSL
	4.5 (⅝)	NB1-CAIN-316(*)-12-TBSL	NB2-CAIN-316(*)-12-TBSL
	6.0 (¼)	NB1-CAIN-14(*)-12-TBSL	NB2-CAIN-14(*)-12-TBSL
<b>K</b> CHROME <sup>®</sup> **ALOMEGA <sup>®</sup> 304 SS Sheath	1.5 (⅛)	NB1-CASS-116(*)-12-TBSL	NB2-CASS-116(*)-12-TBSL
	3.0 (⅜)	NB1-CASS-18(*)-12-TBSL	NB2-CASS-18(*)-12-TBSL
	4.5 (⅝)	NB1-CASS-316(*)-12-TBSL	NB2-CASS-316(*)-12-TBSL
	6.0 (¼)	NB1-CASS-14(*)-12-TBSL	NB2-CASS-14(*)-12-TBSL
<b>E</b> CHROME <sup>®</sup> -CONSTANTAN Inconel Sheath	1.5 (⅛)	NB1-CXIN-116(*)-12-TBSL	NB2-CXIN-116(*)-12-TBSL
	3.0 (⅜)	NB1-CXIN-18(*)-12-TBSL	NB2-CXIN-18(*)-12-TBSL
	4.5 (⅝)	NB1-CXIN-316(*)-12-TBSL	NB2-CXIN-316(*)-12-TBSL
	6.0 (¼)	NB1-CXIN-14(*)-12-TBSL	NB2-CXIN-14(*)-12-TBSL
<b>E</b> CHROME <sup>®</sup> -CONSTANTAN 304 SS Sheath	1.5 (⅛)	NB1-CXSS-116(*)-12-TBSL	NB2-CXSS-116(*)-12-TBSL
	3.0 (⅜)	NB1-CXSS-18(*)-12-TBSL	NB2-CXSS-18(*)-12-TBSL
	4.5 (⅝)	NB1-CXSS-316(*)-12-TBSL	NB2-CXSS-316(*)-12-TBSL
	6.0 (¼)	NB1-CXSS-14(*)-12-TBSL	NB2-CXSS-14(*)-12-TBSL
<b>T</b> COPPER-CONSTANTAN Inconel Sheath	1.5 (⅛)	NB1-CPIN-116(*)-12-TBSL	NB2-CPIN-116(*)-12-TBSL
	3.0 (⅜)	NB1-CPIN-18(*)-12-TBSL	NB2-CPIN-18(*)-12-TBSL
	4.5 (⅝)	NB1-CPIN-316(*)-12-TBSL	NB2-CPIN-316(*)-12-TBSL
	6.0 (¼)	NB1-CPIN-14(*)-12-TBSL	NB2-CPIN-14(*)-12-TBSL
<b>T</b> COPPER-CONSTANTAN 304 SS Sheath	1.5 (⅛)	NB1-CPSS-116(*)-12-TBSL	NB2-CPSS-116(*)-12-TBSL
	3.0 (⅜)	NB1-CPSS-18(*)-12-TBSL	NB2-CPSS-18(*)-12-TBSL
	4.5 (⅝)	NB1-CPSS-316(*)-12-TBSL	NB2-CPSS-316(*)-12-TBSL
	6.0 (¼)	NB1-CPSS-14(*)-12-TBSL	NB2-CPSS-14(*)-12-TBSL

\* Specify junction type: **G** (Grounded), **U** (Ungrounded) or **E** (Exposed)

\*\* For highest temperature and stability rating, change "**SS**" or "**IN**" to "**XL**" and add additional cost to price.

**Note:** Probe length includes approx. ½" allowance for threads.

† To order probes with lengths other than 12", change the "**12**" in the model number to the desired length in inches, and add the appropriate price per add'l foot from the last column.

To order with 310 SS, 316 SS or 321 SS sheath, change "**SS**" in model number to "**310SS**", "**316SS**" or "**321SS**" respectively; no additional charge.

**Ordering Example:** NB1-ICSS-14U-12-TBSL, spring-loaded probe with NB1-type cast iron head, Type J calibration, 6.0 mm (¼") OD, ungrounded 304 SS sheath, 300 mm (12") L.