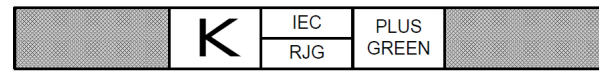


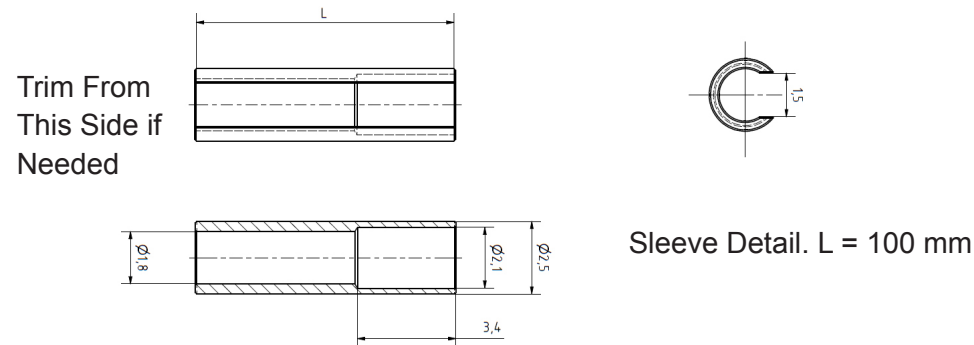
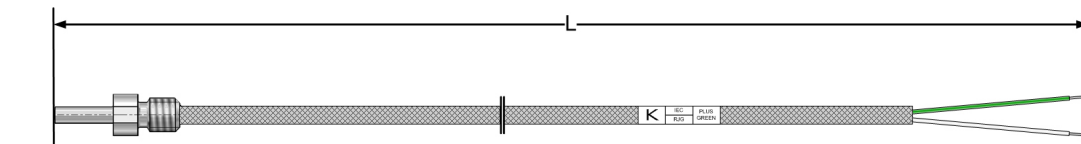
Wiring Information



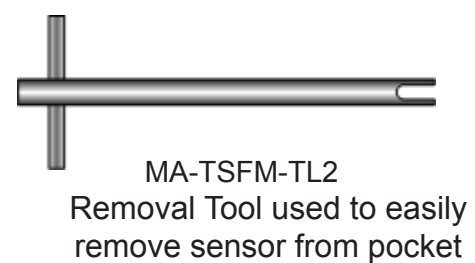
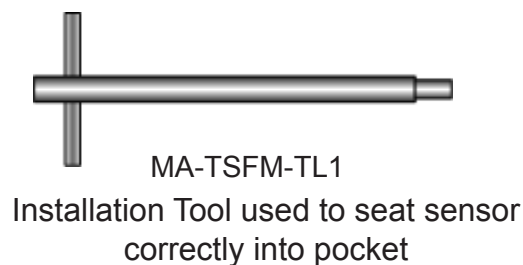
Wiring Guide	
+ (Plus) Signal	Green
- (Negative) Signal	White

Ordering Information

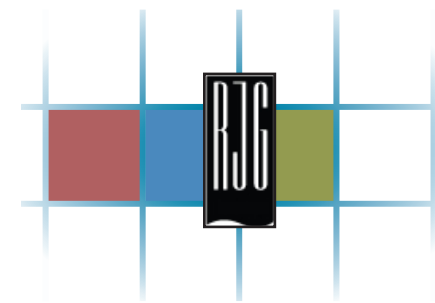
1 mm Temperature with Machinable Tip Sensor Part Numbers	
Sensor with .5 m Cable, Nut and 100 mm sleeve	TS-FM01-K-.5m
Sensor with 1 m Cable, Nut and 100 mm sleeve	TS-FM01-K-1m
Sensor with 2 m Cable, Nut and 100 mm sleeve	TS-FM01-K-2m



Accessory Part Numbers	
Installation Tool	MA-TSFM-TL1
Removal Tool	MA-TSFM-TL2



For further Information please contact RJG Customer Support at 231-947-3111 ext. 170 or visit our website at: http://rjginc.com/resource_product.html to obtain detailed manuals

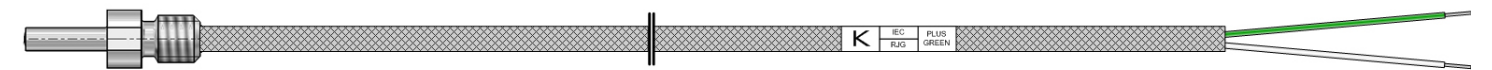


1 mm Temperature Sensor with Machinable Tip TS-FM01-K



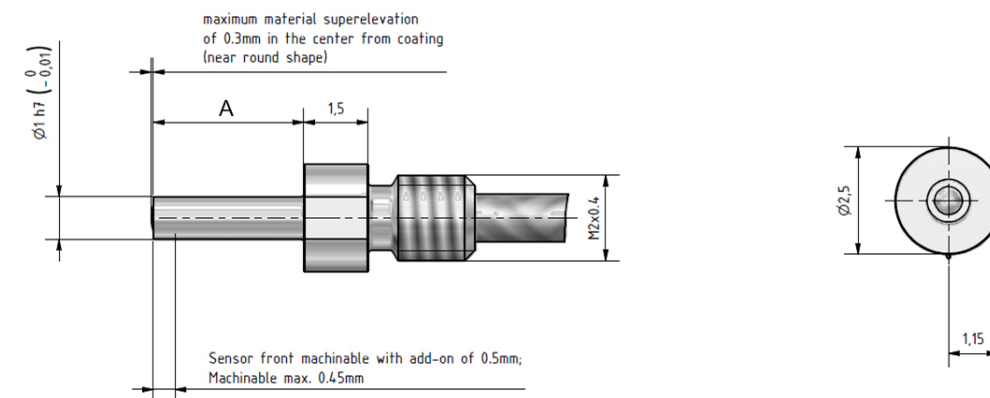
GENERAL DESCRIPTION

The 1 mm Temperature Sensor is a miniaturized K type cavity temperature sensor designed for applications where small size is important. The 1 mm temperature sensor has a machinable tip.



Technical Specifications	
Sensor tip diameter	1.0 mm +0/-0.01 mm [0.0394" +0/-0.0004"]
Thermocouple Type	Type K Grounded
Temperature Range of Sensor and Cable	+400°C [+752°F]
Accuracy	±1%
Sensor material	Stainless Steel
Connection	Open leads

Table 1: Technical Specifications



TS-FM01-K Dimensions

Installation Notes

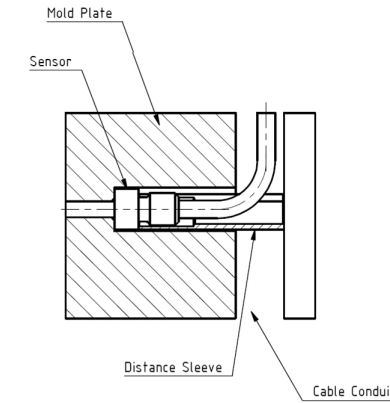
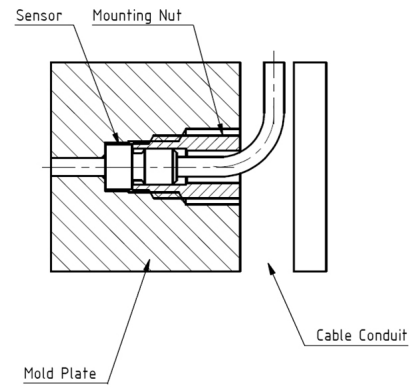
The Non-Machinable TS-FM01-K has a tip length of 3.5 mm +0/-0.02. **Max removable Material .45 mm.** You may remove material from the tip of the sensor, however the **minimum A dimension cannot be less than 3.05 mm.**

1 mm Temperature Sensor TS-FM01-K Machinable Tip Installation

Step One

Choose Installation Method

The TS-FM01-K can be installed either using the included retaining nut (see the figure to the left) or a distance sleeve (see the figure to the right). See figures below. Refer to the Lynx Quad Temperature Module (LS-QTTB-K) manual for information on interfacing sensor to the eDART.

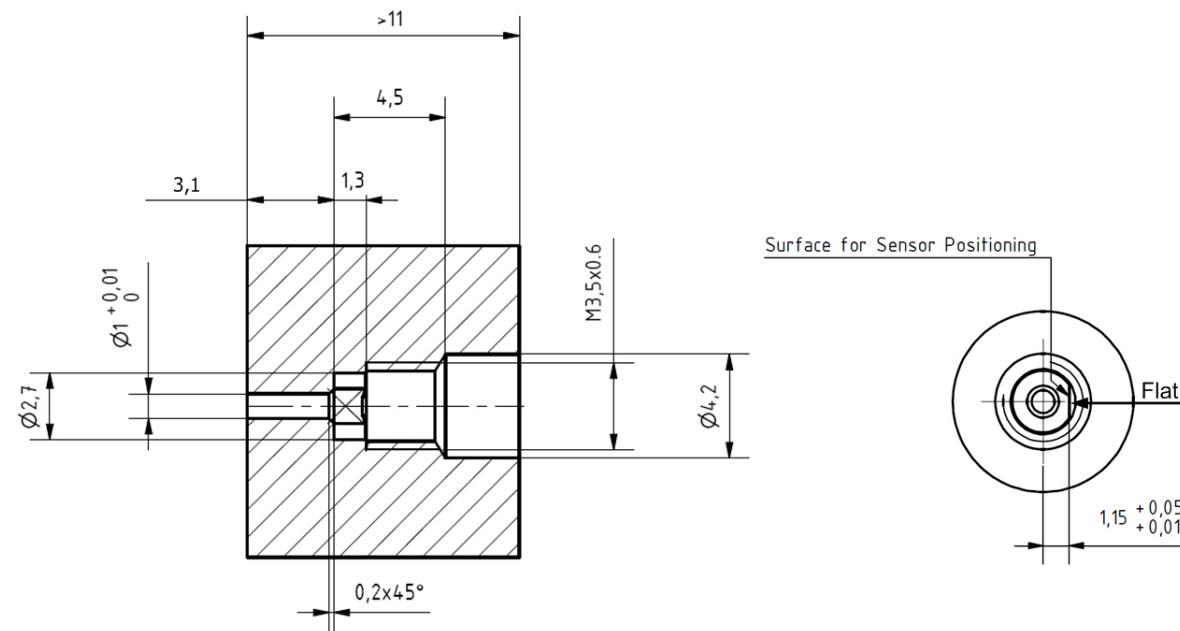


Step Two

Create Sensor Pocket

Nut Installation

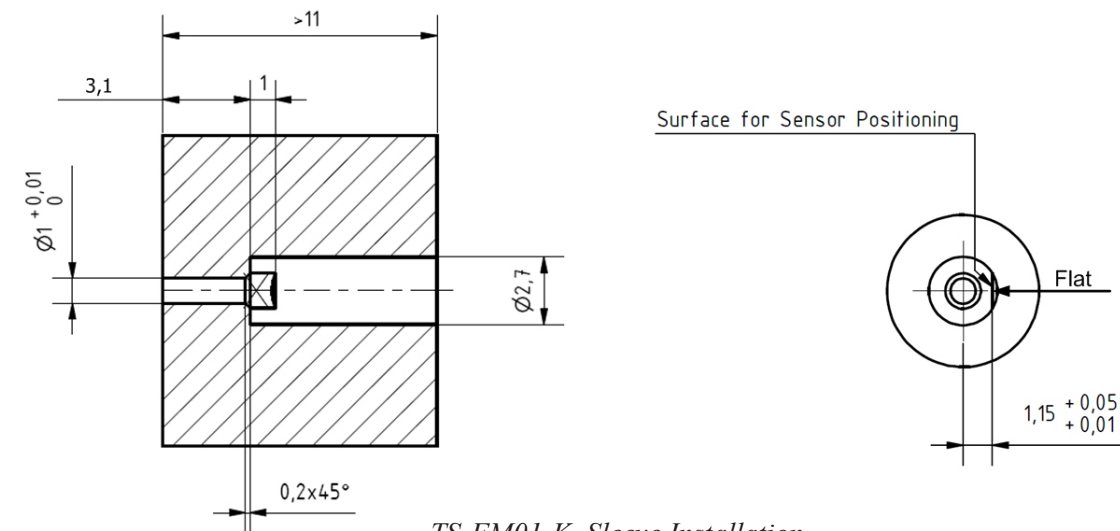
Note the install drawing below. Note flat for the keying of the sensor. A minimum steel thickness of 11 mm is required. The sensor tip length can be adjusted but a **depth of 3.1 mm is recommended**. Then the sensor tip can be polished down to perfectly fit the mold surface. Note the chamfer. Use the install tool to thread nut firmly into place. Use the removal tool to remove the sensor if needed.



TS-FM01-K Nut Installation

Sleeve Installation

Note the install drawing below. Note flat for the keying of the sensor. A minimum steel thickness of 11 mm is required. Maximum Sleeve length is 100 mm. Sleeve can be trimmed from one side (see sleeve details on page 4), care must be taken to not over compress sensor body.



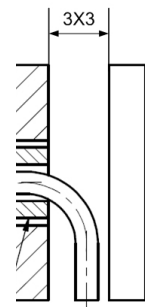
TS-FM01-K Sleeve Installation

Step Three

Create Cable Channel

Cable Channel

A cable channel of 3 mm x 3 mm can be milled to take the cable to the mold surface. Break all corners to avoid damage to cable.



Cable Channel Dimensions

Step Four

Install Sensor

For nut installations, use the Install tool to thread nut into place. (Use the removal tool to remove the sensor later if needed). Secure the sensor cables using the provided cable putty. Assemble the mold carefully, insuring cable does not get pinched.

For sleeve installations, carefully feed the cable through the slot in the sleeve. (Use the removal tool to remove the sensor later if needed). Secure the sensor cables using the provided cable putty. Assemble the mold carefully, insuring cable does not get pinched.