



LFS110K1- Universal Input Standard Output Connector



LFS110K2-Wire Input Standard Output Connector



LFS110T4 - Miniature Input to Miniature Output Connector



LFS110K4 - Miniature Input to Miniature Output Connector



LFS110K3 - Wire Input Miniature Output Connector



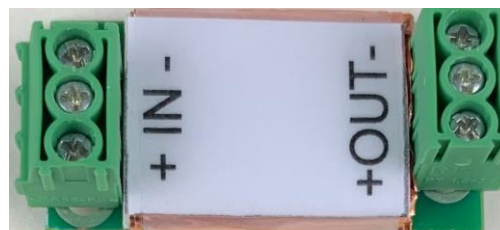
LFS110T3- Wire Input Miniature T output



LFS110RS3- Wire Input Min. R/S Output



LFS110BB-mV/TC Filter Bare Board



LFS110U- Universal Thermocouple/V/mV Filter Board

## K / J / T / R / S Type Thermocouple Connector with Noise Reduction Filter Board – Model LFS110 Series

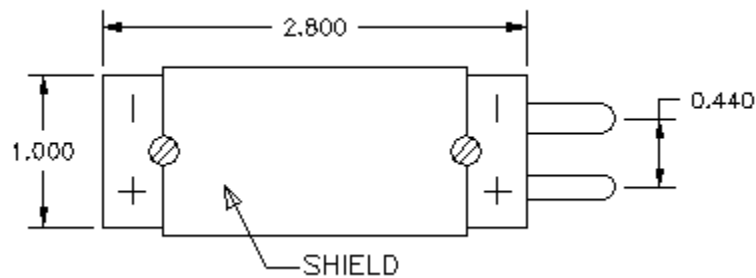
**Table of Contents**

1- Introduction ..... 3

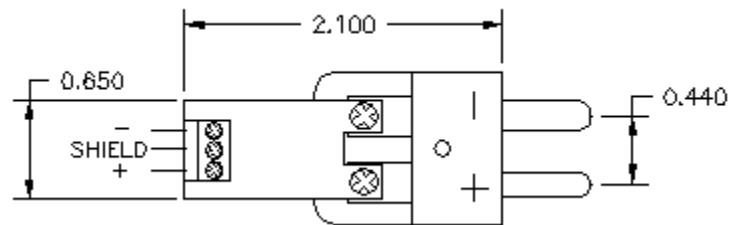
2- Specifications..... 5

## 1- Introduction

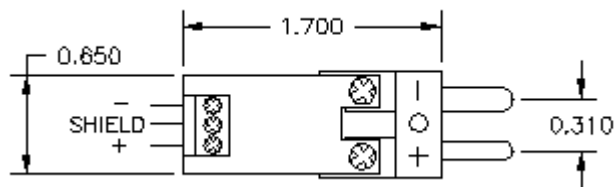
LFS110 series provides K / T / R / S type Thermocouple connection with noise reduction filter board. The filter board is a 2<sup>nd</sup> order passive Low Pass filter which reduces noise on the thermocouple signal due to RFI/EMI noise. No external power is required to operate the filter board. For best results, it is recommended to use shielded thermocouple wire and connect the thermocouple shield to the shield connection of the LFS110 device.



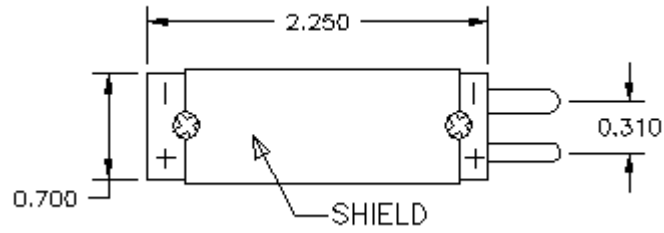
LFS110K1 – Universal Input / Standard Output Connector



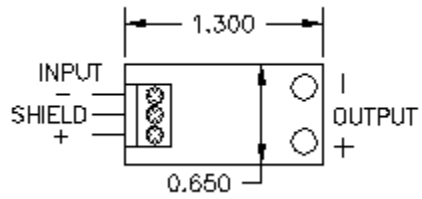
LFS110K2 – Wire Input / Standard Output Connector



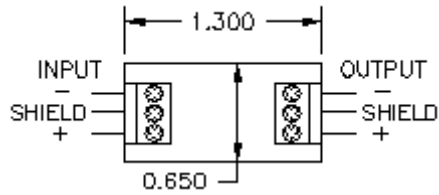
LFS110K3 / LFS110T3 / LFS110RS3 – Wire Input / Miniature Output Connector



LFS110K4 / LFS110T4 – Miniature Input / Miniature Output Connector



LFS110BB – mV/TC Filter Bare Board



LFS110U – Universal Thermocouple/V/mV Filter Board

Figure 1 – General Dimensions, LFS110 Series

## 2- Specifications

Filter Type	2 <sup>nd</sup> order Passive Low Pass Filter
-3dB Frequency	31 Hz
Noise rejection	-40 dB / Decade, typical
Series Resistance	400 Ohms
External Power	None
Operating Temperature	-40 to 85 °C (-40 to 185 °F)
<b>LFS110K1</b>	
Input Connection	K Type - Standard or Miniature Input Connector
Output Connection	K Type - Standard output Connector
Shield	Aluminum cover
<b>LFS110K2</b>	
Input Connection	Wire Input
Output Connection	K Type - Standard output Connector
Shield	Terminal Block position - Middle
<b>LFS110K3</b>	
Input Connection	Wire Input - 26 to 16 AWG
Output Connection	K Type - Miniature output Connector
Shield	Terminal Block position – Middle
<b>LFS110T3</b>	
Input Connection	Wire Input – 26 to 16 AWG
Output Connection	T Type - Miniature output Connector
Shield	Terminal Block position – Middle
<b>LFS110RS3</b>	
Input Connection	Wire Input – 26 to 16 AWG
Output Connection	R/S Type - Miniature output Connector
Shield	Terminal Block position – Middle
<b>LFS110K4</b>	
Input Connection	K Type - Miniature Input Connector
Output Connection	K Type - Miniature output Connector
Shield	Aluminum cover
<b>LFS110T4</b>	
Input Connection	T Type - Miniature Input Connector
Output Connection	T Type - Miniature output Connector

Shield	Aluminum cover
LFS110BB	
Input Connection	Wire Input
Output Connection	Wire Output
Shield	Terminal Block position – Middle
LFS110U	
Input Connection	Wire Input – 26 to 16 AWG
Input Type	Thermocouple (K,J,T,R,S) – 0 to 5Vdc
Output Connection	Wire Output – 26 to 16 AWG
Shield	Middle Terminal Block (Input & Output) and Housing
Export Classification	EAR99