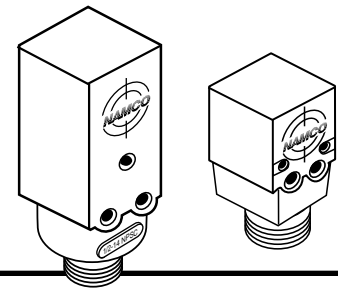


**Weld  
Field  
Immune**

# Inductive Thermoset Rectangular

**DC  
AC/DC**



Proximity Sensors

- Weld Field and Electrical Noise Immunity
- Predictable, Consistent Electrical Performance
- 100% Tested and Burned-in
- Weld Spatter Resistant Housings Will Not Support Combustion
- Standard Latching Short Circuit Protection (SCP), Non-Latching SCP Available for DC Models only

These sensors are specifically designed for extreme duty use in harsh applications such as automotive fabrication and assembly plants. The rectangular series has been the standard of the automotive industry for over 25 years. In that time several different versions, all with a common mounting, have been developed for use as part present and machine location sensors. In addition, specific accessories have been developed to make these sensors even more reliable in your application.

## 0.5" Range (Unshielded) Thermoset Sensors

Connector Type	Circuit Description	Front Sense Model No.	Left Sense Model No.	Right Sense Model No.	Top Sense Model No.	Maximum Load Current	Leakage Current	Voltage Drop*	Short Circuit Protected	Inrush Current
<b>SHORT HOUSING DC 10-30V</b>										
4-pin Euro	3W, PNP, NO	EE510-55440	EE510-56440	EE510-58440	EE510-59440	200mA	10µA	2.0V @ 100mA	Latching	N/A
4-pin Euro	3W, PNP, NO	EE510-55040	EE510-56040	EE510-58040	EE510-59040	200mA	10µA	2.0V @ 100mA	Non-Latching	N/A
<b>SHORT HOUSING AC/DC 20-230V</b>										
3-pin Mini	2W, NO, LL	EE530-55400	EE530-56400	EE530-58400	EE530-59400	500mA	1.7mA	<10V	Latching	3A (20ms)
3-pin Mini	2W, NO, HL	EE560-55400	EE560-56400	EE560-58400	EE560-59400	500mA	4.5mA	<10V	Latching	3A (20ms)
<b>LONG HOUSING DC 10-30V</b>										
4-pin Mini	3W, PNP, NO	EE510-50400	EE510-51400	EE510-53400	EE510-54400	200mA	10µA	2.0V @ 100mA	Latching	N/A
4-pin Mini	3W, PNP, NO	EE510-50000	EE510-51000	EE510-53000	EE510-54000	200mA	10µA	2.0V @ 100mA	Non-Latching	N/A
4-pin Euro	3W, PNP, NO	EE510-50440	EE510-51440	EE510-53440	EE510-54440	200mA	10µA	2.0V @ 100mA	Latching	N/A
4-pin Euro	3W, PNP, NO	EE510-50040	EE510-51040	EE510-53040	EE510-54040	200mA	10µA	2.0V @ 100mA	Non-Latching	N/A
<b>LONG HOUSING AC/DC 20-230V</b>										
3-pin Mini	2W, NO, LL	EE530-50400	EE530-51400	EE530-53400	EE530-54400	500mA	1.7mA	<10V	Latching	3A (20ms)
3-pin Mini	2W, NO, HL	EE560-50400	EE560-51400	EE560-53400	EE560-54400	500mA	4.5mA	<10V	Latching	3A (20ms)
8' Cable	2W, NO, HL	EE560-50415	EE560-51415	EE560-53415	EE560-54415	500mA	4.5mA	<10V	Latching	3A (20ms)
<b>LONG HOUSING AC/DC 20-230V DUAL SENSING</b>										
5-pin Mini	2W, NO, LL	EE530-65500	-	-	-	500mA	1.7mA	<10V	Latching	3A (20ms)
5-pin Mini	2W, NO, HL	EE560-65500	-	-	-	500mA	4.5mA	<10V	Latching	3A (20ms)

\* Across conducting sensor

- ▶ "LL" indicates *Low Leakage* and "HL" indicates *High Leakage*.
- ▶ Consult factory for normally closed model availability.



## Common Sensor Characteristics

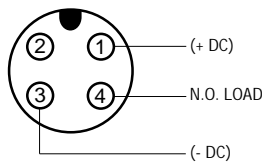
THERMOSET INDUCTIVE RECTANGULAR SENSORS	
Nominal Sensing Range ( $\pm 10\%$ )	0.5"
Short Circuit Protection	yes
Repeatability	$< \pm 1\%$
Hysteresis	3-10%
Temperature Drift (max.)	$\pm 10\%$
Ambient Temperature Range	-4°F to +158°F
Reverse Polarity Protected	yes
Current Consumption (3-wire DC only)	10mA
LED Indicator (AC/DC)	red = pwr, green = target
LED Indicator (DC)	green = pwr, amber = target
Housing	Weld Flash Proof
Cable Type	PVC
Shipping Weight	6 oz.
Maximum Switching Frequency	16Hz

## Circuit Drawings

### EURO CONNECTOR MODELS

Male view shown

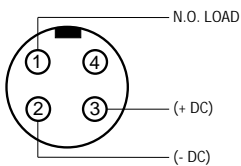
3 Wire DC N.O.



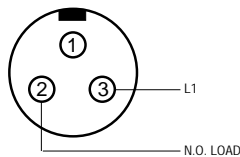
### MINI CONNECTOR MODELS

Male views shown

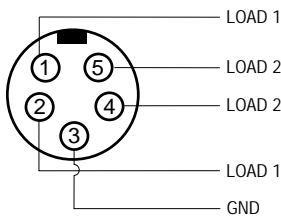
3 Wire DC N.O.



2 Wire AC/DC N.O.

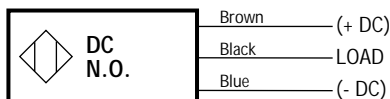


5 Wire AC/DC N.O.

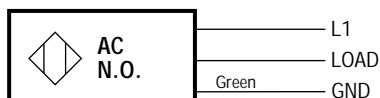


### CABLE MODELS

3 Wire DC N.O.



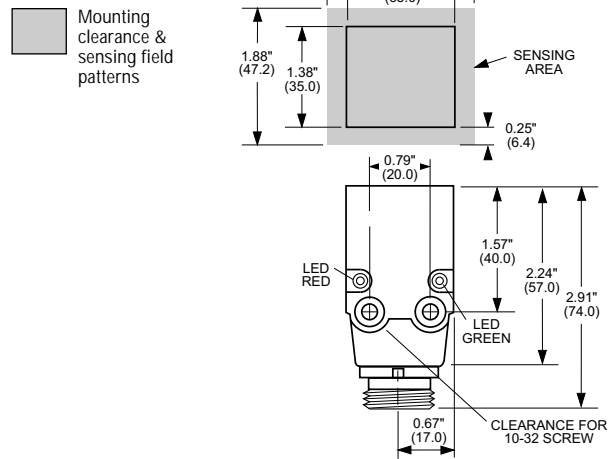
2 Wire AC/DC N.O.



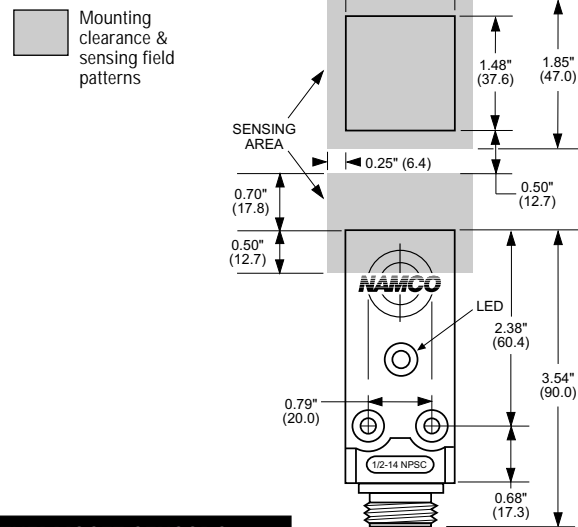
## Dimensional Drawings

## DC, AC/DC

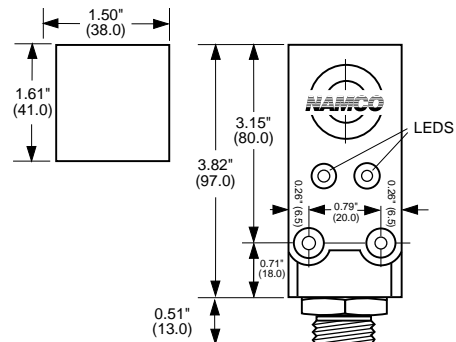
### THERMOSET SENSORS – SHORT HOUSING



### THERMOSET SENSORS – LONG HOUSING



### THERMOSET SENSORS – DUAL SENSING



Proximity Sensors

# NAMCO

Namco Controls Corporation

Mayfield Village, OH 44143

(440) 460-1360 • FAX (440) 460-3800 • [namcocontrols.com](http://namcocontrols.com)

For technical assistance, call 1-800-NAMTECH