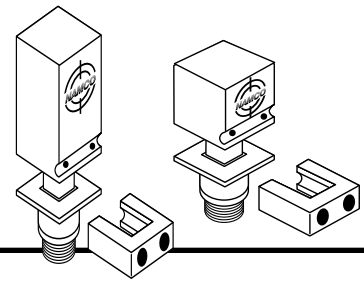


**Weld
Field
Immune**

Inductive Rotatable Rectangular

**DC
AC/DC**



Proximity Sensors

- Weld Field and Electrical Noise Immunity
- Predictable, Consistent Performance
- 100% Tested and Burned-in
- New Ultra Long Range models in latching and non-latching

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"/1.0" Range (Unshielded) Rotatable Sensors

Connector Type	Circuit Description	Front Sense**	Top Sense	Maximum Load Current	Leakage Current	Voltage Drop*	Short Circuit Protected	Inrush Current
SHORT HOUSING DC 10-30V 0.5" Range								
4-pin Euro	3W, PNP, NO	EE510-15440	EE510-19440	200mA	10µA	2.0V @ 100mA	Latching	N/A
4-pin Euro	3W, PNP, NO	EE510-15040	EE510-19040	200mA	10µA	2.0V @ 100mA	Non-Latching	N/A
4-pin Mini	3W, PNP, NO	EE510-15400	EE510-19400	200mA	10µA	2.0V @ 100mA	Latching	N/A
4-pin Mini	3W, PNP, NO	EE510-15000	EE510-19000	200mA	10µA	2.0V @ 100mA	Non-Latching	N/A
SHORT HOUSING AC/DC 20-230V 0.5" Range								
3-pin Mini	2W, NO, LL	EE530-15400	EE530-19400	500mA	1.7mA	<10V	Latching	3A (20ms)
3-pin Micro	2W, NO, LL	EE530-15420	EE530-19420	500mA	1.7mA	<10V	Latching	3A (20ms)
LONG HOUSING DC 10-30V 0.5" Range								
4-pin Euro	3W, PNP, NO	EE510-10440	EE510-14440	200mA	10µA	2.0V @ 100mA	Latching	N/A
4-pin Euro	3W, PNP, NO	EE510-10040	EE510-14040	200mA	10µA	2.0V @ 100mA	Non-Latching	N/A
4-pin Mini	3W, PNP, NO	EE510-10400	EE510-14400	200mA	10µA	2.0V @ 100mA	Latching	N/A
4-pin Mini	3W, PNP, NO	EE510-10000	EE510-14000	200mA	10µA	2.0V @ 100mA	Non-Latching	N/A
8' Cable	3W, PNP, NO	EE510-10415	EE510-14415	200mA	10µA	2.0V @ 100mA	Latching	N/A
8' Cable	3W, PNP, NO	EE510-10015	EE510-14015	200mA	10µA	2.0V @ 100mA	Non-Latching	N/A
LONG HOUSING AC/DC 20-230V 0.5" Range								
3-pin Mini	2W, NO, LL	EE530-10400	EE530-14400	500mA	1.7mA	<10V	Latching	3A (20ms)
3-pin Micro	2W, NO, LL	EE530-10420	EE530-14420	500mA	1.7mA	<10V	Latching	3A (20ms)
LONG HOUSING DC 10-30V 1.0" Range								
4-pin Euro	3W, PNP, NO	EE510-30440	EE510-34440	200mA	10µA	2.0V @ 100mA	Latching	N/A
4-pin Euro	3W, PNP, NO	EE510-30040	EE510-34040	200mA	10µA	2.0V @ 100mA	Non-Latching	N/A
LONG HOUSING AC/DC 20-150V 1.0" Range								
3-pin Mini	2W, NO, LL	EE530-30400	EE530-34400	200mA	1.7mA	<10V	Latching	1.5A

* Across conducting sensor

** Rotate for left or right sense.

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



Common Sensor Characteristics

ROTATABLE INDUCTIVE RECTANGULAR SENSORS	
Nominal Sensing Range ($\pm 10\%$)	0.5"/1.0"*
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 Resistant
Cable Type	PVC
Shipping Weight	Connector model: 6 oz. Cable model: 11 oz.
Maximum Switching Frequency	16Hz

* 1" range is for the Ultra Long Range models only

Circuit Drawings

EURO CONNECTOR MODELS Male view shown

3 Wire DC N.O.

① (+ DC)
② N.O. LOAD
③ (- DC)
④ N.O. LOAD

MINI CONNECTOR MODELS Male views shown

3 Wire DC N.O.

① N.O. LOAD
② (+ DC)
③ (- DC)
④ N.O. LOAD

2 Wire AC/DC N.O.

① L1
② N.O. LOAD
③ N.O. LOAD

CABLE MODELS

3 Wire DC N.O.

Brown (+ DC)
Black LOAD
Blue (- DC)

2 Wire AC/DC N.O.

L1
Green LOAD
Green GND

Dimensional Drawings

ROTATABLE SENSORS – SHORT HOUSING

Mounting clearance & sensing field patterns

1.86" (47.2)
1.36" (34.5)
1.86" (47.2)
1.36" (34.5)
0.25" (6.4)
0.79" (20.0)
1.59" (40.4)
2.96" (75.2)
0.88" (22.4)
0.25" (6.4)
0.79" (20.0)
0.25" (6.4)
0.79" (20.0)
0.25" (6.4)
0.79" (20.0)

TOP SENSING VERSION ϕ AT CENTER
FRONT SENSING VERSION
COIL (TARGET)
RED LED
GREEN LED
CLEARANCE FOR #10-32 SCREWS
METAL HARD COAT MOUNTING YOKE ALLOWS FOR 90° ROTATION
MINI CONNECTOR

ROTATABLE SENSORS – LONG HOUSING Rectangular/Ultra Long Range models

Mounting clearance & sensing field patterns

1.88" (47.7)
1.38" (35.0)
1.88" (47.7)
1.38" (35.0)
0.25" (6.4)
0.50" (12.7)
0.70" (17.8)
0.50" (12.7)
2.36" (60.0)
3.78" (95.0)
0.31" (8.0)
0.79" (20.0)

FRONT SENSING VERSION
LED RED
LED GREEN
MINI CONNECTOR

Proximity Sensors



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