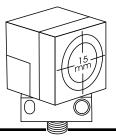


HammerHead[™]

9-Way Configurable Proximity Sensors





Loximity Sensors EVC All M

Introducing the Namco HammerHead[™] Proximity Sensor: Evolution Means Survival of the Fittest.

All Metal Body Stands up to Abuse

To evolve means to adapt to your surroundings. The HammerHead sensor is completely enclosed in a rugged die-cast body. All metal means more strength in the face of abuse.

9-Way Position Flexibility

Eight-point indexed side-sense, plus top sense configuration make the HammerHead sensor "9sensors-in-one."

Positive Grip Compression Clamp Bracket

Provides superior mounting strength.



MADE IN US



"Show us your metal!" The HammerHead sensor has an all-metal body so it is not prone to mechanical breakage like other user-configurable sensors with plastic housings.

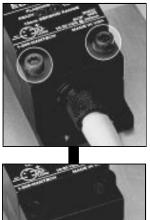
Streamlined Design Shakes off Weld Slag . . . Without Protective "Boots"

The HammerHead sensor's face is weld slag resistant, so even heavy deposits roll right off. Plus, because it has no nooks or crevices for slag to accumulate, you'll never have to worry about "false triggering" from slag buildup.



An Easy Upgrade. Directly Replaces Other Configurable Sensors

Two sets of mounting holes on bracket allow easy retrofit of traditional rectangular sensors (using lower pair of holes), or retrofit of limit switch-style sensors (using the upper pair).

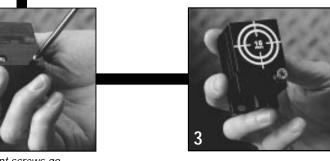






Configuring is as easy as "1-2-3"

The HammerHead sensor is fieldadaptable to positions for top, front, left or right sensing. This means you can site-adapt sensors to changing application conditions.



Adjustment screws go straight in . . . no difficult angles to slow things down.

Simplifies Ordering

Because it is "9-sensors-in-one," the HammerHead sensor makes things easy for your Purchasing Department. A single part number replaces as many as five conventional rectangular proximity sensors.

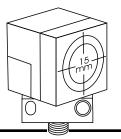




HammerHeadTM

9-Way Configurable Proximity Sensors





- Nine-way position flexibility
- Weld Field Immune circuitry is designed to operate within 1" of a resistance welding electrode carrying 20,000 Amperes RMS (45,000 Amp. peak) without changing state
- Will not exhibit false turn-ons from walkietalkies or other in-plant sources of RF noise
- Patented Short Circuit Protection

- Covered by Namco Lifetime Replacement
 Program
- Rugged metal body and clamp bracket

The HammerHead sensor is field-configurable to sense in nine different positions: top, front, back, left, right, and four 45° side sense positions.

The HammerHead sensor features Namco's famous weld field immune circuit proven reliable the world over in the harshest conditions. Totally epoxy encapsulated, the electronics are truly "automotive grade."

Connector Type	Circuit Description	Housing Dimensions	Non-latching SCP Model No.	Latching SCP Model No.	Maximum Load Current	Leakage Current	Voltage Drop	Short Circuit Protected
15mm SENS	ING RANGE	DC 10-30V	(SHIELDED)				•	
4-pin Mini	3W, PNP, NO	40x40x68.5mm	EE510-90000	EE510-90400	200mA	< 10µA	2.5V	Yes
4-pin Euro	3W, PNP, NO	40x40x68.5mm	EE510-90040	EE510-90440	200mA	< 10µA	2.5V	Yes
20mm SENS	SING RANGE	DC 10-30V	(SHIELDED)					
4-pin Mini	3W, PNP, NO	40x40x68.5mm	EE510-91000	EE510-91400	200mA	< 10µA	2.5V	Yes
4-pin Euro	3W, PNP, NO	40x40x68.5mm	EE510-91040	EE510-91440	200mA	< 10µA	2.5V	Yes
25mm SENS	SING RANGE	DC 10-30V	(SHIELDED)					
4-pin Mini	3W, PNP, NO	40x40x68.5mm	EE510-93000	EE510-93400	200mA	< 10µA	2.5V	Yes
4-pin Euro	3W, PNP, NO	40x40x68.5mm	EE510-93040	EE510-93440	200mA	< 10µA	2.5V	Yes
25mm SENS	SING RANGE	DC 10-30V	(UNSHIELDED					
4-pin Mini	3W, PNP, NO	40x40x68.5mm	EE510-92000	EE510-92400	200mA	< 10µA	2.5V	Yes
4-pin Euro	3W, PNP, NO	40x40x68.5mm	EE510-92040	EE510-92440	200mA	< 10µA	2.5V	Yes
35mm SENS	SING RANGE	DC 10-30V	(UNSHIELDED)				
4-pin Mini	3W, PNP, NO	40x40x68.5mm	EE510-94000	EE510-94400	200mA	< 10µA	2.5V	Yes
4-pin Euro	3W, PNP, NO	40x40x68.5mm	EE510-94040	EE510-94440	200mA	< 10µA	2.5V	Yes
15mm SENS	SING RANGE	AC/DC 20-15	50V (SHIELDE	D)				
3-pin Mini	2W, NO	40x40x68.5mm		EE530-90400	200mA	1.7mA	10V	Yes
3-pin Micro	2W, NO	40x40x68.5mm		EE530-90420	200mA	1.7mA	10V	Yes
20mm SENS	SING RANGE	AC/DC 20-15	50V (SHIELDE	D)				
3-pin Mini	2W, NO	40x40x68.5mm		EE530-91400	200mA	1.7mA	10V	Yes
3-pin Micro	2W, NO	40x40x68.5mm		EE530-91420	200mA	1.7mA	10V	Yes
25mm SENS	SING RANGE	AC/DC 20-15	50V (SHIELDE	D)				
3-pin Mini	2W, NO	40x40x68.5mm		EE530-93400	200mA	1.7mA	10V	Yes
3-pin Micro	2W, NO	40x40x68.5mm		EE530-93420	200mA	1.7mA	10V	Yes
25mm SENS	SING RANGE	AC/DC 20-15	50V (UNSHIEI	_DED)				
3-pin Mini	2W, NO	40x40x68.5mm		EE530-92400	200mA	1.7mA	10V	Yes
3-pin Micro	2W, NO	40x40x68.5mm		EE530-92420	200mA	1.7mA	10V	Yes
35mm SENS	SING RANGE	AC/DC 20-15	50V (UNSHIEI	_DED)				
3-pin Mini	2W, NO	40x40x68.5mm		EE530-94400	200mA	1.7mA	10V	Yes
3-pin Micro	2W, NO	40x40x68.5mm		EE530-94420	200mA	1.7mA	10V	Yes



Common Sensor Characteristics

HAMMERHEAD SENSORS							
	2 Wire AC/DC	3 Wire DC					
Supply Voltage	20-150V	10-30V					
Voltage Drop	10V	2.5V					
Max. Load Current	200mA	200mA					
Current Consumption	N/A	11mA					
Leakage Current	1.7mA	< 10µA					
Mis-wiring Protected	Yes ¹	Yes ²					
Response Time	30ms	30ms					
Output Circuit	2 Wire	Sourcing					
Ambient Temperature Range	-25°C to 70°C (-13°F to 158°F)						

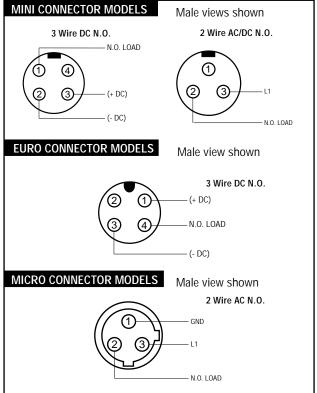
LED Functions

	2 Wire	e AC/DC	3 Wii	re DC
	Red	Green	Green	Amber
Power Off	Off	Off	Off	Off
Power On Load De-energized	On	Off	On	Off
Power On Load Energized	Off	On	On	On
*SCP Mode Activated	Both Flashing		Both Flashing	

*Short Circuit Protection: If the sensor is shorted, the sensor's Short Circuit Protection (SCP) will be activated. When this occurs, both LEDs will flash and the sensor will limit current flow to about 2.0mA.

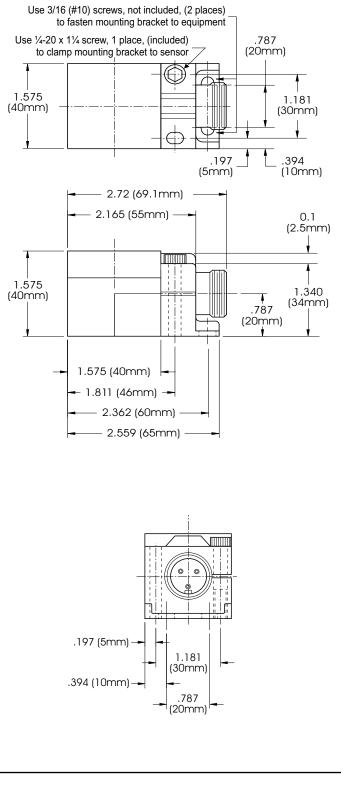
- ¹ Namco 2-wire AC/DC sensors are bipolar by design they cannot be miswired.
- ² Namco 3-wire DC sensors incorporate reverse polarity protection.

Wiring Diagrams



Dimensional Drawings DC, AC/DC

HAMMERHEAD SENSORS - MINI CONNECTORS





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For technical assistance, call 1-800-NAMTECH