



# INDUCTIVE PROXIMITY SENSORS

## SMALL DIAMETER—5 AND 8 mm

E57 Series  
Starts at  
**\$74**



- Small 5 and 8 mm Diameters for Use in Applications with Limited Space for Mounting Sensors
- Stainless Steel or Ni-Brass Housings
- All Models Include an LED Indicator to Show Output Status
- Short Circuit and Reverse Polarity Protection
- Rated NEMA 4, 4X, 6, 6P, 12 and 13 (IP67) for High Resistance to Environmental Factors

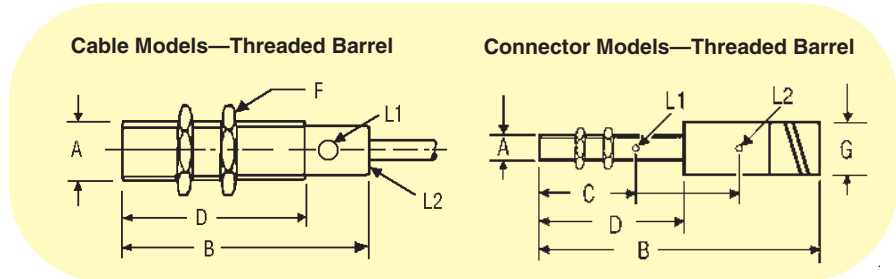
### Applications

- Automation Equipment
- Robotics
- Machine Tool
- Counting
- Sorting

These unique Cutler-Hammer® Inductive Proximity Sensors are designed to be used in extremely small spaces. A wide variety of models are available with housing diameters of 8 mm (0.31") and a very small 5 mm (0.20"), allowing you to choose the one that best fits your application. The sensors are 3-wire devices that operate from 10 to 30 Vdc. Both shielded and unshielded versions are available.

### SPECIFICATIONS

**Operating Voltage:** 10 to 30 Vdc  
**Maximum Load Current:** 200 mA  
**Switching Frequency:** 2 kHz  
**Leakage Current:** 0.01 mA maximum  
**Voltage Drop:** 1.5V maximum  
**Burden Current:** 10 mA maximum  
**Protection Transient:** Power on false pulse suppression, auto-reset short circuit



Dimensions: mm (in)

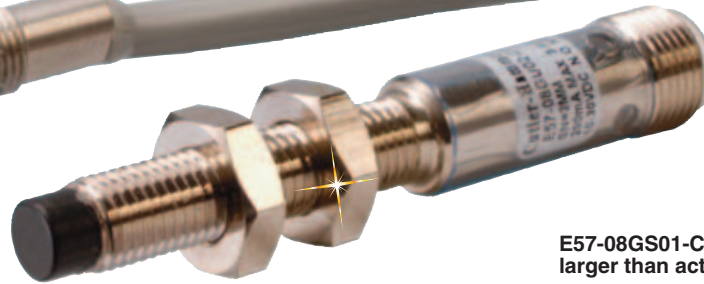
DIA A	LENGTH B	mm C	(in) D	THREAD E	NUT WIDTH F	CONNECTOR DIA G	LED LOCATION
5 mm (0.20")	25 (1.0)	—	21 (0.8)	M5 x 0.5	SW8	—	L1
8 mm (0.31") cable	30 (1.8)	—	30 (1.2)	M8 x 1	SW13	—	L2
8 mm (0.31") micro- con.	50 (2.0)	40 (1.6)	25 (1.0)	M8 x 1	SW13	1.2 (0.47)	L2

**Switching Hysteresis:** <15% rated sensing distance  
**Repeat Accuracy:** <1% sensing distance  
**Time Delay Before Availability:** <50 ms  
**Output Indicator LED:** Lights when output is ON  
**Operating Temperature:** -25 to 70°C (-13 to 158°F)

**Enclosure Ratings:** NEMA 4, 4X, 6, 6P, 12 and 13 (IP67)  
**Housing Material:** Stainless steel or Ni plated brass  
**Cable:** PVC high flex, oil/water resistant, 22 AWG



E57EAL5T110SP, \$104, shown larger than actual size.



E57-08GS01-CDB, \$77, shown larger than actual size.

**Wiring Diagrams (Pin Numbers Are for Reference, Rely on Pin Location When Wiring)**

OPERATING VOLTAGE 3-WIRE SENSORS	OUTPUT	CABLE MODELS	MICRO CONNECTOR MODELS (FACE VIEW MALE SHOWN)
10 to 30 Vdc	NO (NPN)		
	NO (PNP)		

**To Order (Specify Model Number)**

**MOST POPULAR MODELS HIGHLIGHTED!**

TYPE	MODEL NO.	PRICE	OPERATING VOLTAGE	SENSING RANGE mm (in)	SHIELDING	CONNECTION TYPE m (ft)
5 mm (0.20") Dia. End Sensing NO Output SS Case	E57EAL5T110SP	\$104	10 to 30 Vdc	0.8 (0.03)	Shielded NPN	2 (6) cable
	E57EAL5T111SP	104			Shielded PNP	
8 mm (0.31") Dia. End Sensing NO Output Ni-Brass Case	E57-08GS01-C	74	10 to 30 Vdc	1 (0.04)	Shielded NPN	2 (6) cable
	E57-08GS01-CDB	77				4-pin micro DC connector
	E57-08GS01-G	74			Shielded PNP	2 (6) cable
	E57-08GS01-GDB	77				4-pin micro DC connector
	E57-08GU02-C	74		2 (0.08)	Unshielded NPN	2 (6) cable
	E57-08GU02-CDB	80				4-pin micro DC connector
	E57-08GU02-G	74			Unshielded PNP	2 (6) cable
	E57-08GU02-GDB	80				4-pin micro DC connector
	E57-08GE03-C	86		3 (0.1) Extended Range	Shielded NPN	2 (6) cable
	E57-08GE03-CDB	89				4-pin micro DC connector
	E57-08GE03-G	86			Shielded PNP	2 (6) cable
	E57-08GE03-GDB	89				4-pin micro DC connector

**Ordering Examples:** E57EAL5T110SP, 5 mm (0.20") diameter prox, shielded, NPN output, 2 m (6') cable, \$104.

E57-08GU02-C, 8 mm (0.31") unshielded NPN output with 2 m (6') cable, \$74.

**Accessories**

MODEL NO.	PRICE	DESCRIPTION
CSDS4A4CY2202	\$20.50	DC cable, 4-pin, 22 AWG, 2 m (6') PVC jacket
E57KM8	13.00	Bracket for 8 mm (0.31") tubular sensors



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