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Inductive Proximity Sensors

Global Proximity Sensors

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Global Proximity Sensors



Global Proximity Sensors

Product Description

The Global Proximity Sensor family was created by Eaton’s electrical sector with the high volume OEM in mind. It has been optimized to include only those functions necessary for basic, reliable sensing. Why pay for extra features when you don’t need them? That’s not to say these sensors lack the performance or features you expect. Our DC units are short circuit protected and will sense up to 2,000 operations per second. Plus, all sensors include a bright LED indicator to show output status.

There’s no need to design your machine around these sensors. The Global family includes models in a variety of diameters so they will fit right where you need them.

Select models from 8 mm diameter all the way up to 30 mm, for just the size or sensing range that you require. Need something smaller? Our standard line includes inductive proximity sensors as small as 4 mm in diameter.

The Global Proximity is available in AC or DC, two-wire or three-wire, and NPN or PNP. You can even choose between cable wiring or quick-disconnect connectors. For power handling, our DC units feature a 100 mA load current rating and AC units are rated up to 200 mA.

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Features

- The Global Proximity Line features solid performance and a basic feature set for reliable, cost-effective sensing
- Available in a variety of sizes to fit in all of your applications: 8 mm, 12 mm, 18 mm and 30 mm diameters
- DC sensors operate on 10–30 Vdc in two-wire and three-wire (NPN or PNP) configurations
- AC sensors operate on 20–250 Vac in two-wire configuration
- Switching frequency of 2 kHz for DC models
- Shielded and unshielded versions available
- Terminations include:
 - 2-meter cable
 - Micro-connector
 - Nano-connector
- DC units include short circuit protection

Standards and Certifications

- CE (DC models only)
- cCSAus



DANGER

THIS SENSOR IS NOT A SAFETY DEVICE AND IS NOT INTENDED TO BE USED AS A SAFETY DEVICE. This sensor is designed only to detect and read certain data in an electronic manner and perform no use apart from that, specifically no safety-related use. This sensor product does not include self-checking redundant circuitry, and the failure of this sensor product could cause either an energized or de-energized output condition, which could result in death, serious bodily injury, or property damage.




For the most current information on this product, visit our Web site: www.eaton.com

For Customer Service in the U.S. call 1-877-ETN CARE (386-2273), in Canada call 1-800-268-3578. For Application Assistance in the U.S. and Canada call 1-800-426-9184.

Product Selection

Global Proximity Sensors

Two-Wire Sensors

| | Operating Voltage | Sensing Range | Shielding | Output Type | Connection Type | NO Output Catalog Number | NC Output Catalog Number | |
|---|--|------------------------|------------|--------------|--------------------------|--------------------------|--------------------------|--------------------------|
|  | 12 mm Diameter | | | | | | | |
| | 20–250 Vac | 2 mm | Shielded | NO | 2-meter cable | E57-12GS02-A | E57-12GS02-A1 | |
| | | | | | 3-pin micro AC connector | E57-12GS02-AAB ☺ | E57-12GS02-A1AB ☺ | |
| | | 4 mm | Unshielded | NO | 2-meter cable | E57-12GU04-A | E57-12GU04-A1 | |
| | | | | | 3-pin micro AC connector | E57-12GU04-AAB ☺ | E57-12GU04-A1AB ☺ | |
| | | 10–30 Vdc | 2 mm | Shielded | NO (NPN/PNP) | 2-meter cable | E57-12GS02-D | E57-12GS02-D |
| | | | | | | 4-pin micro DC connector | E57-12GS02-DDB ☺ | E57-12GS02-DDB ☺ |
| | 4 mm | | Unshielded | NO (NPN/PNP) | 2-meter cable | E57-12GU04-D | E57-12GU04-D1 | |
| | | | | | 4-pin micro DC connector | E57-12GU04-DDB ☺ | E57-12GU04-D1DB ☺ | |
| | 8 mm (extended range) | | | | NO (NPN/PNP) | 2-meter cable | E57-12GE08-D | E57-12GE08-D1 |
| | | | | | | 4-pin micro DC connector | E57-12GE08-DDB ☺ | E57-12GE08-D1DB ☺ |
| | | | | NC (NPN/PNP) | 2-meter cable | — | E57-12GE08-D1 | |
| | | | | | 4-pin micro DC connector | — | E57-12GE08-D1DB ☺ | |
| |  | 18 mm Diameter | | | | | | |
| | | 20–250 Vac | 5 mm | Shielded | NO | 2-meter cable | E57-18GS05-A | E57-18GS05-A1 |
| 3-pin micro AC connector | | | | | | E57-18GS05-AAB ☺ | E57-18GS05-A1AB ☺ | |
| 8 mm | | | Unshielded | NO | 2-meter cable | E57-18GU08-A | E57-18GU08-A1 | |
| | | | | | 3-pin micro AC connector | E57-18GU08-AAB ☺ | E57-18GU08-A1AB ☺ | |
| 16 mm | | | | | NO | 3-pin micro AC connector | E57-18GE16-AAB ☺ | E57-18GE16-A1AB ☺ |
| | | | | | | | | |
| 10–30 Vdc | | 5 mm | Shielded | NO (NPN/PNP) | 2-meter cable | E57-18GS05-D | E57-18GS05-D1 | |
| | | | | | 4-pin micro DC connector | E57-18GS05-DDB ☺ | E57-18GS05-D1DB ☺ | |
| | | 8 mm | Unshielded | NO (NPN/PNP) | 2-meter cable | E57-18GU08-D | E57-18GU08-D1 | |
| | | | | | 4-pin micro DC connector | E57-18GU08-DDB ☺ | E57-18GU08-D1DB ☺ | |
| | | 16 mm (extended range) | | | NO (NPN/PNP) | 2-meter cable | E57-18GE16-D | E57-18GE16-D1 |
| | | | | | | 4-pin micro DC connector | E57-18GE16-DDB ☺ | E57-18GE16-D1DB ☺ |
| | | | | NC (NPN/PNP) | 2-meter cable | — | E57-18GE16-D1 | |
| | | | | | 4-pin micro DC connector | — | E57-18GE16-D1DB ☺ | |
|  | 30 mm Diameter | | | | | | | |
| | 20–250 Vac | 10 mm | Shielded | NO | 2-meter cable | E57-30GS10-A | E57-30GS10-A1 | |
| | | | | | 3-pin micro AC connector | E57-30GS10-AAB ☺ | E57-30GS10-A1AB ☺ | |
| | | 15 mm | Unshielded | NO | 2-meter cable | E57-30GU15-A | E57-30GU15-A1 | |
| | | | | | 3-pin micro AC connector | E57-30GU15-AAB ☺ | E57-30GU15-A1AB ☺ | |
| | | 10–30 Vdc | 10 mm | Shielded | NO (NPN/PNP) | 2-meter cable | E57-30GS10-D | E57-30GS10-D1 |
| | | | | | | 4-pin micro DC connector | E57-30GS10-DDB ☺ | E57-30GS10-D1DB ☺ |
| | 15 mm | | Unshielded | NO (NPN/PNP) | 2-meter cable | E57-30GU15-D | E57-30GU15-D1 | |
| | | | | | 4-pin micro DC connector | E57-30GU15-DDB ☺ | E57-30GU15-D1DB ☺ | |
| | 25 mm (extended range) | | | | NO (NPN/PNP) | 2-meter cable | E57-30GE25-D | E57-30GE25-D1 |
| | | | | | | 4-pin micro DC connector | E57-30GE25-DDB ☺ | E57-30GE25-D1DB ☺ |
| | | | | NC (NPN/PNP) | 2-meter cable | — | E57-30GE25-D1 | |
| | | | | | 4-pin micro DC connector | — | E57-30GE25-D1DB ☺ | |

Note

☺☺ See listing of compatible connector cables on **Page V8-T3-40**.

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Inductive Proximity Sensors

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Three-Wire Sensors

| Operating Voltage | Sensing Range | Shielding | Output Type | Connection Type | NO Output Catalog Number | NC Output Catalog Number | | |
|--------------------------|---------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 8 mm | | | | | | | | |
| 8 mm Diameter | | | | | | | | |
| 10–30 Vdc | 1 mm | Shielded | NO (NPN) | 2-meter cable | E57-08GS01-C | E57-08GS01-C1 | | |
| | | | | 3-pin nano-connector | E57-08GS01-CNB ☺ | E57-08GS01-C1NB ☺ | | |
| | | | | 4-pin micro DC connector | E57-08GS01-CDB ☺ | E57-08GS01-C1DB ☺ | | |
| | | | NO (PNP) | 2-meter cable | E57-08GS01-G | E57-08GS01-G1 | | |
| | | | | 3-pin nano-connector | E57-08GS01-GNB ☺ | E57-08GS01-G1NB ☺ | | |
| | | | | 4-pin micro DC connector | E57-08GS01-GDB ☺ | E57-08GS01-G1DB ☺ | | |
| | 3 mm (extended range) | NO (NPN) | 2-meter cable | E57-08GE03-C | E57-08GE03-C1 | | | |
| | | | 3-pin nano-connector | E57-08GE03-CNB ☺ | E57-08GE03-C1NB ☺ | | | |
| | | | 4-pin micro DC connector | E57-08GE03-CDB ☺ | E57-08GE03-C1DB ☺ | | | |
| | | NC (NPN) | 2-meter cable | — | E57-08GBE03-C | | | |
| | | | NO (PNP) | 2-meter cable | E57-08GE03-G | E57-08GE03-G1 | | |
| | | | | 3-pin nano-connector | E57-08GE03-GNB ☺ | E57-08GE03-G1NB ☺ | | |
| | 4-pin micro DC connector | E57-08GE03-GDB ☺ | | E57-08GE03-G1DB ☺ | | | | |
| | 2 mm | Unshielded | NO (NPN) | 2-meter cable | E57-08GU02-C | E57-08GU02-C1 | | |
| | | | | 3-pin nano-connector | E57-08GU02-CNB ☺ | E57-08GU02-C1NB ☺ | | |
| | | | | 4-pin micro DC connector | E57-08GU02-CDB ☺ | E57-08GU02-C1DB ☺ | | |
| | | | NO (PNP) | 2-meter cable | E57-08GU02-G | E57-08GU02-G1 | | |
| | | | | 3-pin nano-connector | E57-08GU02-GNB ☺ | E57-08GU02-G1NB ☺ | | |
| 4-pin micro DC connector | | | | E57-08GU02-GDB ☺ | E57-08GU02-G1DB ☺ | | | |
| 6 mm (extended range) | | NO (NPN) | 2-meter cable | E57-08GE06-C | E57-08GE06-C1 | | | |
| | | | 4-pin micro DC connector | E57-08GE06-CDB ☺ | E57-08GE06-C1DB ☺ | | | |
| | | | NO (PNP) | 2-meter cable | E57-08GE06-G | E57-08GE06-G1 | | |
| | | 4-pin micro DC connector | | E57-08GE06-GDB ☺ | E57-08GE06-G1DB ☺ | | | |
| | | 12 mm | | | | | | |
| | | 12 mm Diameter | | | | | | |
| 10–30 Vdc | 2 mm | Shielded | NO (NPN) | 2-meter cable | E57-12GS02-C | E57-12GS02-C1 | | |
| | | | | 4-pin micro DC connector | E57-12GS02-CDB ☺ | E57-12GS02-C1DB ☺ | | |
| | | | | NO (PNP) | 2-meter cable | E57-12GS02-G | E57-12GS02-G1 | |
| | | | 4-pin micro DC connector | | E57-12GS02-GDB ☺ | E57-12GS02-G1DB ☺ | | |
| | | | 5 mm (extended range) | | NO (NPN) | 2-meter cable | E57-12GE05-C | E57-12GE05-C1 |
| | | | | 4-pin micro DC connector | | E57-12GE05-CDB ☺ | E57-12GE05-C1DB ☺ | |
| | | NO (PNP) | | 2-meter cable | | E57-12GE05-G | E57-12GE05-G1 | |
| | | | | 4-pin micro DC connector | E57-12GE05-GDB ☺ | E57-12GE05-G1DB ☺ | | |
| | | | | 4 mm | Unshielded | NO (NPN) | 2-meter cable | E57-12GU04-C |
| | | 4-pin micro DC connector | | | | | E57-12GU04-CDB ☺ | E57-12GU04-C1DB ☺ |
| | | NO (PNP) | 2-meter cable | | | | E57-12GU04-G | E57-12GU04-G1 |
| | | | 4-pin micro DC connector | | E57-12GU04-GDB ☺ | E57-12GU04-G1DB ☺ | | |
| | 10 mm (extended range) | | NO (NPN) | | 2-meter cable | E57-12GE10-C | E57-12GE10-C1 | |
| | | 4-pin micro DC connector | | | E57-12GE10-CDB ☺ | E57-12GE10-C1DB ☺ | | |
| | | NO (PNP) | | 2-meter cable | E57-12GE10-G | E57-12GE10-G1 | | |
| | | | 4-pin micro DC connector | E57-12GE10-GDB ☺ | E57-12GE10-G1DB ☺ | | | |

Note

☺☺ See listing of compatible connector cables on **Page V8-T3-40**.

Three-Wire Sensors, continued

| | Operating Voltage | Sensing Range | Shielding | Output Type | Connection Type | NO Output Catalog Number | NC Output Catalog Number | | | | |
|---|--|---------------------------|---------------------------|--------------------------|--------------------------|---------------------------|--------------------------|--------------------------|--------------------------|-------------------------|--------------------------|
| 18 mm  | 18 mm Diameter | | | | | | | | | | |
| | 10–30 Vdc | 5 mm | Shielded | NO (NPN) | 2-meter cable | E57-18GS05-C | E57-18GS05-C1 | | | | |
| | | | | | 4-pin micro DC connector | E57-18GS05-CDB ⊕ | E57-18GS05-C1DB ⊕ | | | | |
| | | | 8 mm (extended range) | Shielded | NO (PNP) | 2-meter cable | E57-18GS05-G | E57-18GS05-G1 | | | |
| | | | | | 4-pin micro DC connector | E57-18GS05-GDB ⊕ | E57-18GS05-G1DB ⊕ | | | | |
| | | | 8 mm (extended range) | Shielded | NO (NPN) | 2-meter cable | E57-18GE08-C | E57-18GE08-C1 | | | |
| | | | | | 4-pin micro DC connector | E57-18GE08-CDB ⊕ | E57-18GE08-C1DB ⊕ | | | | |
| | | 8 mm (extended range) | Unshielded | NO (PNP) | 2-meter cable | E57-18GE08-G | E57-18GE08-G1 | | | | |
| | | | | 4-pin micro DC connector | E57-18GE08-GDB ⊕ | E57-18GE08-G1DB ⊕ | | | | | |
| | 30 mm  | 10–30 Vdc | 10 mm | Shielded | NO (NPN) | 2-meter cable | E57-30GS10-C | E57-30GS10-C1 | | | |
| | | | | | | 4-pin micro DC connector | E57-30GS10-CDB ⊕ | E57-30GS10-C1DB ⊕ | | | |
| | | | | | | 15 mm (extended range) | Shielded | NO (PNP) | 2-meter cable | E57-30GS10-G | E57-30GS10-G1 |
| | | | | | | | | 5-meter Cable | E57-30GS10-G5 | — | |
| | | | | | | 15 mm (extended range) | Shielded | | 4-pin micro DC connector | E57-30GS10-GDB ⊕ | E57-30GS10-G1DB ⊕ |
| | | | | | | | | NO (NPN) | 2-meter cable | E57-30GE15-C | E57-30GE15-C1 |
| | | | 15 mm (extended range) | Unshielded | | 4-pin micro DC connector | E57-30GE15-CDB ⊕ | E57-30GE15-C1DB ⊕ | | | |
| | | | | | NO (PNP) | 2-meter cable | E57-30GE15-G | E57-30GE15-G1 | | | |
| | | | 15 mm (extended range) | Unshielded | | 4-pin micro DC connector | E57-30GE15-GDB ⊕ | E57-30GE15-G1DB ⊕ | | | |
| | | NO (NPN) | | | 2-meter cable | E57-30GU15-C | E57-30GU15-C1 | | | | |
| | | 29 mm (extended range) | Unshielded | | 4-pin micro DC connector | E57-30GU15-CDB ⊕ | E57-30GU15-C1DB ⊕ | | | | |
| | | | | NO (PNP) | 2-meter cable | E57-30GU15-G | E57-30GU15-G1 | | | | |
| | 29 mm (extended range) | Unshielded | | 4-pin micro DC connector | E57-30GU15-GDB ⊕ | E57-30GU15-G1DB ⊕ | | | | | |
| | | | NO (NPN) | 2-meter cable | E57-30GE29-C | E57-30GE29-C1 | | | | | |
| | 29 mm (extended range) | Unshielded | | 4-pin micro DC connector | E57-30GE29-CDB ⊕ | E57-30GE29-C1DB ⊕ | | | | | |
| | | | NO (PNP) | 2-meter cable | E57-30GE29-G | E57-30GE29-G1 | | | | | |
| | 29 mm (extended range) | Unshielded | | 4-pin micro DC connector | E57-30GE29-GDB ⊕ | E57-30GE29-G1DB ⊕ | | | | | |

Note

⊕ See listing of compatible connector cables on [Page V8-T3-40](#).

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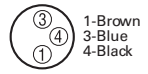
Inductive Proximity Sensors

Global Proximity Sensors

Compatible Connector Cables

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Standard Cables ①

| | Voltage Style | Number of Pins | Gauge | Length | Pin Configuration/Wire Colors (Face View Female Shown) | PVC Jacket Catalog Number | PUR Jacket Catalog Number |
|---|-------------------------------------|----------------|--------|-------------|--|---------------------------|---------------------------|
| Micro-Style Straight Female  | Micro-Style, Straight Female | | | | | | |
| | AC | 3-pin, 3-wire | 22 AWG | 6.0 ft (2m) |  | CSAS3F3CY2202 | CSAS3F3RY2202 |
| Nano-Style Straight Female  | Nano-Style, Straight Female | | | | | | |
| | DC | 4-pin, 3-wire | 22 AWG | 6.0 ft (2m) |  | CSDS4A3CY2202 | CSDS4A3RY2202 |
| Nano-Style Straight Female  | Nano-Style, Straight Female | | | | | | |
| | DC | 3-pin | 24 AWG | 6.0 ft (2m) |  | CSNS3A3CY2402 | CSNS3A3RY2402 |

Accessories

Global Proximity Sensors

| Description | Reference |
|---|---------------------------------|
| Mounting brackets | See Tab 8, section 8.2 |
| Replacement mounting nuts and other accessories | See Tab 8, section 8.3 |
| Connector cables | See Tab 10, section 10.1 |

Note

① For a full selection of connector cables, see **Tab 10, section 10.1**.

Technical Data and Specifications

Global Proximity Sensors

| Description | Two-Wire AC Sensors | Two-Wire DC Sensors | Three-Wire DC Sensors |
|--------------------------------|--|--|--|
| Operating voltage | 20–250 Vac | 10–30 Vdc | 10–30 Vdc |
| OFF-state leakage | <1.8 mA | <0.8 mA | <0.01 mA |
| Maximum load current | 200 mA | 100 mA | 100 mA |
| Minimum load current | 5 mA | 3 mA | — |
| Surge current | 5A (20 ms) | — | — |
| Voltage drop | <8 Vac at 400 mA | <6V | <1.5V |
| Switching frequency | | | |
| 8 mm diameter | — | — | 2 kHz (shielded and unshielded) |
| 12 mm diameter | 25 Hz | 1 kHz (shielded); 1 kHz (unshielded) | 2 kHz (shielded); 1 kHz (unshielded) |
| 18 mm diameter | 25 Hz | 1 kHz (shielded); 500 Hz (unshielded) | 1 kHz (shielded); 500 Hz (unshielded) |
| 30 mm diameter | 25 Hz | 500 Hz (shielded); 200 Hz (unshielded) | 300 Hz (shielded); 150 Hz (unshielded) |
| Short circuit protection | No | Yes | Yes |
| Overload trip point | — | >120 mA | 220 mA |
| Time delay before availability | — | — | <10 ms |
| Transient protection | — | 2 kV, 1 ms, 1 kohm | 1kV, 0.1 ms, 1 kohm |
| Repeat accuracy | Shielded: <1.0%/Unshielded: <3.0% (Sr) | <2.0% (Sr) | <1.0% (Sr) |
| Switching hysteresis | <15% | <15% | <15% |
| Operating temperature | –13° to 158°F (–25° to 70°C) (32° to 140°F [0° to 60°C] for all extended range models) | –13° to 158°F (–25° to 70°C) (32° to 140°F [0° to 60°C] for all extended range models) | –13° to 158°F (–25° to 70°C) (32° to 140°F [0° to 60°C] for all extended range models) |
| Temperature drift | <10% (Sr) | <10% (Sr) | <10% (Sr) |
| Protection | IP67, IP69K | IP67, IP69K | IP67, IP69K |
| Housing material | Nickel plated brass (stainless steel for 8 mm diameter, nano-connector models) | Nickel plated brass (stainless steel for 8 mm diameter, nano-connector models) | Nickel plated brass (stainless steel for 8 mm diameter, nano-connector models) |
| Cable | PVC jacket, 2-meter length | PVC jacket, 2-meter length | PVC jacket, 2-meter length |

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Inductive Proximity Sensors

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Wiring Diagrams

Pin numbers are for reference, rely on pin location when wiring.

Global Proximity Sensors

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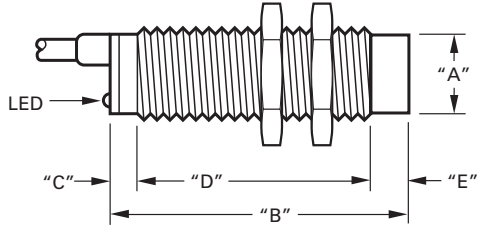
| Operating Voltage | Output | Cable Models | Connector Models (Face View Male Shown) | |
|---------------------------|----------|--------------|---|------|
| | | | Micro | Nano |
| Two-Wire Sensors | | | | |
| 20–250 Vac | NO | | | — |
| 10–30 Vdc | NO (NPN) | | | — |
| | NO (PNP) | | | — |
| Three-Wire Sensors | | | | |
| 10–30 Vdc | NO (NPN) | | | |
| | NO (PNP) | | | |
| | NC (NPN) | | | |
| | NC (PNP) | | | |

Dimensions

Approximate Dimensions in mm

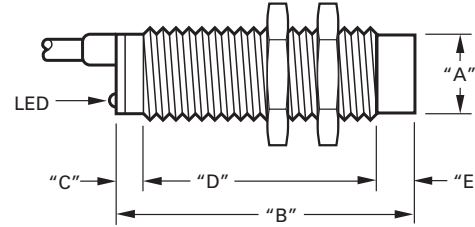
Cable Models

Two-Wire Sensors



| Catalog Number | Operating Voltage | A | B | C | D | E |
|----------------|-------------------|-------|----|----|----|----|
| E57-12GS02-A | 20–250 Vac | M12x1 | 65 | 15 | 50 | — |
| E57-12GU04-A | | M12x1 | 60 | 15 | 42 | 8 |
| E57-18GS05-A | | M18x1 | 80 | 20 | 60 | — |
| E57-18GU08-A | | M18x1 | 80 | 20 | 48 | 12 |
| E57-30GS10-A | | M30 | 80 | 20 | 60 | — |
| E57-30GU15-A | | M30 | 80 | 20 | 45 | 15 |
| E57-12GS02-D | 10–30 Vdc | M12x1 | 50 | — | 50 | — |
| E57-12GU04-D | | M12x1 | 50 | — | 42 | 8 |
| E57-12GE08-D | | M12x1 | 50 | — | 42 | 8 |
| E57-12GE08-D1 | | M12x1 | 50 | — | 42 | 8 |
| E57-18GS05-D | | M18x1 | 55 | 5 | 50 | — |
| E57-18GU08-D | | M18x1 | 55 | 5 | 38 | 12 |
| E57-18GE16-D | | M18x1 | 55 | 5 | 38 | 12 |
| E57-18GE16-D1 | | M18x1 | 55 | 5 | 38 | 12 |
| E57-30GS10-D | | M30 | 55 | 5 | 50 | — |
| E57-30GU15-D | | M30 | 55 | 5 | 35 | 15 |
| E57-30GE25-D | | M30 | 55 | 5 | 35 | 15 |
| E57-30GE25-D1 | | M30 | 55 | 5 | 35 | 15 |

Three-Wire Sensors



| Catalog Number | Operating Voltage | A | B | C | D | E |
|----------------|-------------------|-------|------|-----|----|------|
| E57-08GE03-C | 10–30 Vdc | M8x1 | 46 | 6 | 40 | — |
| E57-08GE03-G | | M8x1 | 46 | 6 | 40 | — |
| E57-08GS01-C | | M8x1 | 45 | — | 45 | — |
| E57-08GS01-G | | M8x1 | 45 | — | 45 | — |
| E57-08GU02-C | | M8x1 | 45 | — | 41 | 4 |
| E57-08GU02-G | | M8x1 | 45 | — | 41 | 4 |
| E57-12GE05-C | | M12x1 | 51 | 2 | 49 | — |
| E57-12GE05-G | | M12x1 | 51 | 2 | 49 | — |
| E57-12GE10-C | | M12x1 | 50.5 | 1.7 | 41 | 7.8 |
| E57-12GE10-G | | M12x1 | 50.5 | 1.7 | 41 | 7.8 |
| E57-12GS02-C | | M12x1 | 50 | — | 50 | — |
| E57-12GS02-G | | M12x1 | 50 | — | 50 | — |
| E57-12GU04-C | | M12x1 | 50 | — | 42 | 8 |
| E57-12GU04-G | | M12x1 | 50 | — | 42 | 8 |
| E57-18GE08-C | | M18x1 | 67.5 | 2.5 | 65 | — |
| E57-18GE08-G | | M18x1 | 65.5 | 2.5 | 65 | — |
| E57-18GE18-C | | M18x1 | 66 | 2.5 | 52 | 11.5 |
| E57-18GE18-G | | M18x1 | 66 | 2.5 | 52 | 11.5 |
| E57-18GS05-C | | M18x1 | 55 | 5 | 50 | — |
| E57-18GS05-G | | M18x1 | 55 | 5 | 50 | — |
| E57-18GU08-C | | M18x1 | 55 | 5 | 38 | 12 |
| E57-18GU08-G | | M18x1 | 55 | 5 | 38 | 12 |
| E57-30GE15-C | | M30 | 69 | 5 | 64 | — |
| E57-30GE15-G | | M30 | 69 | 5 | 64 | — |
| E57-30GE29-C | | M30 | 83 | 5 | 64 | 15 |
| E57-30GE29-G | | M30 | 83 | 5 | 64 | 15 |
| E57-30GS10-C | | M30 | 55 | 5 | 50 | — |
| E57-30GS10-G | | M30 | 55 | 5 | 50 | — |
| E57-30GU15-C | | M30 | 55 | 5 | 35 | 15 |
| E57-30GU15-G | | M30 | 55 | 5 | 35 | 15 |

3.4

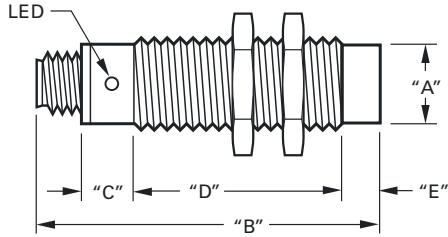
Inductive Proximity Sensors

Global Proximity Sensors

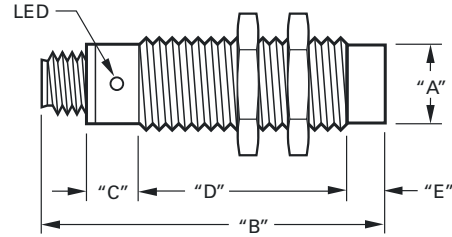
Approximate Dimensions in mm

Connector Models

Two-Wire Sensors



Three-Wire Sensors



| Catalog Number ① | Operating Voltage | A | B | C | D | E |
|------------------------|-------------------|-------|------|----|----|------|
| E57-12GS02-AAB | 20–250 Vac | M12x1 | 68 | 16 | 42 | — |
| E57-12GU04-AAB | | M12x1 | 68 | 16 | 34 | 8 |
| E57-18GS05-AAB | | M18x1 | 91 | 20 | 60 | — |
| E57-18GU08-AAB | | M18x1 | 91 | 20 | 48 | 12 |
| E57-30GS10-AAB | | M30 | 80 | 20 | 60 | — |
| E57-30GU15-AAB | | M30 | 91 | 20 | 45 | 15 |
| E57-12GS02-DDB | 10–30 Vdc | M12x1 | 69 | 16 | 42 | — |
| E57-12GU04-DDB | | M12x1 | 68 | 16 | 34 | 8 |
| E57-12GE08-DDB | | M12x1 | 68 | 10 | 50 | 8 |
| E57-12GE08-D1DB | | M12x1 | 68 | 10 | 50 | 8 |
| E57-18GS05-DDB | | M18x1 | 76 | 15 | 61 | — |
| E57-18GU08-DDB | | M18x1 | 80 | 15 | 49 | 12 |
| E57-18GE16-DDB | | M18x1 | 79 | 15 | 52 | 12 |
| E57-18GE16-D1DB | | M18x1 | 79 | 15 | 52 | 12 |
| E57-30GS10-DDB | | M30 | 75 | 15 | 60 | — |
| E57-30GU15-DDB | | M30 | 79 | 15 | 45 | 15 |
| E57-30GE25-DDB | | M30 | 78 | 15 | 48 | 15 |
| E57-30GE25-D1DB | | M30 | 78 | 15 | 48 | 15 |
| E57-18GE16-AAB | | M18x1 | 79.2 | 15 | 37 | 11.5 |

| Catalog Number ① | Operating Voltage | A | B | C | D | E |
|-----------------------|-------------------|-------|------|------|----|------|
| E57-08GE03-CDB | 10–30 Vdc | M8x1 | 71 | 26 | 36 | — |
| E57-08GE03-CNB | | M8x1 | 61 | 19 | 42 | — |
| E57-08GE03-GDB | | M8x1 | 71 | 26 | 36 | — |
| E57-08GE03-GNB | | M8x1 | 61 | 19 | 42 | — |
| E57-08GS01-CD | | M8x1 | 70 | 21 | 49 | — |
| E57-08GS01-CN | | M8x1 | 60 | 20 | 40 | — |
| E57-08GS01-GD | | M8x1 | 70 | 21 | 49 | — |
| E57-08GS01-GN | | M8x1 | 60 | 20 | 40 | — |
| E57-08GU02-CD | | M8x1 | 70 | 21 | 45 | 4 |
| E57-08GU02-CN | | M8x1 | 60 | 20 | 36 | 4 |
| E57-08GU02-GD | | M8x1 | 70 | 21 | 45 | 4 |
| E57-08GU02-GN | | M8x1 | 60 | 20 | 36 | 4 |
| E57-12GE05-CDB | | M12x1 | 69 | 24 | 45 | — |
| E57-12GE05-GDB | | M12x1 | 69 | 24 | 45 | — |
| E57-12GE10-CDB | | M12x1 | 68.5 | 10.3 | 36 | 7.8 |
| E57-12GE10-GDB | | M12x1 | 68.5 | 10.3 | 36 | 7.8 |
| E57-12GS02-CDB | | M12x1 | 68 | 16 | 52 | — |
| E57-12GS02-GDB | | M12x1 | 68 | 16 | 52 | — |
| E57-12GU04-CDB | | M12x1 | 68 | 20 | 31 | 8 |
| E57-12GU04-GDB | | M12x1 | 68 | 20 | 31 | 8 |
| E57-18GS05-CDB | | M18x1 | 76 | 15 | 61 | — |
| E57-18GS05-GDB | | M18x1 | 76 | 15 | 61 | — |
| E57-18GU08-CDB | | M18x1 | 76 | 15 | 49 | 12 |
| E57-18GU08-GDB | | M18x1 | 80 | 15 | 49 | 12 |
| E57-30GS10-CDB | | M30 | 79 | 15 | 60 | — |
| E57-30GS10-GDB | | M30 | 75 | 15 | 60 | — |
| E57-30GU15-CDB | | M30 | 75 | 15 | 45 | 15 |
| E57-30GU15-GDB | | M30 | 75 | 15 | 45 | 15 |
| E57-18GE18-CDB | | M18x1 | 79.2 | 15 | 37 | 11.5 |
| E57-18GG18-GDB | | M18x1 | 79.2 | 15 | 37 | 11.5 |

Note

① Normally closed models are dimensionally identical to equivalent normally open models.