

July 2005

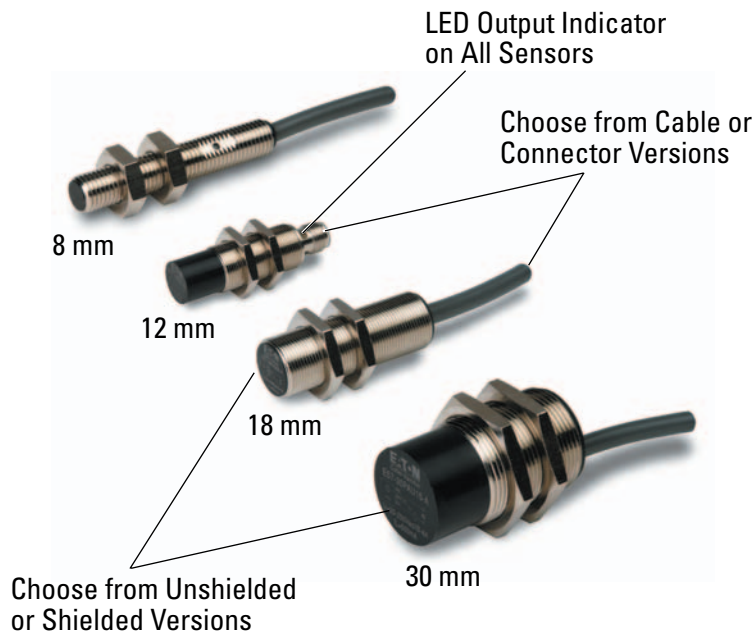
**Global Plus  
Inductive Proximity Sensors****Contents**

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The Cutler-Hammer® Global Plus Proximity Sensor Family was designed by Eaton's electrical business as the optimal solution for high volume OEM customers. It has been optimized to include the basic functions for high sensing reliability at the price you need. The Global Plus Line offers 8, 12, 18 and 30 mm diameter connectorized and cable versions with a bright LED indicator to show output status. Regardless of the electrical scheme you're using, we've got you covered — AC or DC, 2-wire and 3-wire, NPN or PNP, we have it in our line at the right price.

**Approvals**

For the most current information  
on this product, visit our web site:  
[www.EatonElectrical.com](http://www.EatonElectrical.com)

**Most Cost-Effective Inductive Proximity on the Market****Product Features**

- The Global Plus Proximity Line is designed as the most cost-effective solution for every tubular proximity need
- 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 – 30V DC in 3-wire (NPN or PNP) configurations
- AC sensors operate on 20 – 250V AC in 2-wire configuration
- Bright output LED indicator on all models, 360 degree indicators also available
- Shielded and unshielded versions available

For Customer Service in the U.S. call **1-800-356-1243**,  
in Canada call **1-800-268-3578**.  
For Application Assistance in the U.S. and Canada  
call **1-800-426-9184**.

### Model Selection — Global Plus Prox Sensors

|                                                                                     | Operating Voltage | Sensing Range | Shielding  | Output Type              | Connection Type          | Catalog Number   |                  |
|-------------------------------------------------------------------------------------|-------------------|---------------|------------|--------------------------|--------------------------|------------------|------------------|
|                                                                                     |                   |               |            |                          |                          | N.O. Output      | N.C. Output      |
| 2-Wire Sensors                                                                      |                   |               |            |                          |                          |                  |                  |
|    | 20 – 250V AC      | 2 mm          | Shielded   | —                        | 2-meter Cable            | E57-12PAS02-A    | E57-12PBS02-A    |
|                                                                                     |                   |               |            | —                        | 3-pin Micro AC Connector | E57-12PAS02-AD ☼ | E57-12PBS02-AD ☼ |
|                                                                                     |                   | 4 mm          | Unshielded | —                        | 2-meter Cable            | E57-12PAU04-A    | E57-12PBU04-A    |
|                                                                                     |                   |               |            | —                        | 3-pin Micro AC Connector | E57-12PAU04-AD ☼ | E57-12PBU04-AD ☼ |
|    |                   | 5 mm          | Shielded   | —                        | 2-meter Cable            | E57-18PAS05-A    | E57-18PBS05-A    |
|                                                                                     |                   |               |            | —                        | 3-pin Micro AC Connector | E57-18PAS05-AD ☼ | E57-18PBS05-AD ☼ |
|                                                                                     |                   | 8 mm          | Unshielded | —                        | 2-meter Cable            | E57-18PAU08-A    | E57-18PBU08-A    |
|                                                                                     |                   |               |            | —                        | 3-pin Micro AC Connector | E57-18PAU08-AD ☼ | E57-18PBU08-AD ☼ |
|   | 10 mm             | Shielded      | —          | 2-meter Cable            | E57-30PAS10-A            | E57-30PBS10-A    |                  |
|                                                                                     |                   |               | —          | 3-pin Micro AC Connector | E57-30PAS10-AD ☼         | E57-30PBS10-AD ☼ |                  |
|                                                                                     | 15 mm             | Unshielded    | —          | 2-meter Cable            | E57-30PAU15-A            | E57-30PBU15-A    |                  |
|                                                                                     |                   |               | —          | 3-pin Micro AC Connector | E57-30PAU15-AD ☼         | E57-30PBU15-AD ☼ |                  |
| 3-Wire Sensors                                                                      |                   |               |            |                          |                          |                  |                  |
|  | 10 – 30V DC       | 1.5 mm        | Shielded   | NPN                      | 2-meter Cable            | E57-08PAS15-C    | E57-08PBS15-C    |
|                                                                                     |                   |               |            |                          | 4-pin Micro DC Connector | E57-08PAS15-CD ☼ | E57-08PBS15-CD ☼ |
|                                                                                     |                   |               |            | PNP                      | 2-meter Cable            | E57-08PAS15-G    | E57-08PBS15-G    |
|                                                                                     |                   |               |            |                          | 4-pin Micro DC Connector | E57-08PAS15-GD ☼ | E57-08PBS15-GD ☼ |
|                                                                                     |                   | 2 mm          | Unshielded | NPN                      | 2-meter Cable            | E57-08PAU02-C    | E57-08PBU02-C    |
|                                                                                     |                   |               |            |                          | 4-pin Micro DC Connector | E57-08PAU02-CD ☼ | E57-08PBU02-CD ☼ |
|                                                                                     |                   |               |            | PNP                      | 2-meter Cable            | E57-08PAU02-G    | E57-08PBU02-G    |
|                                                                                     |                   |               |            |                          | 4-pin Micro DC Connector | E57-08PAU02-GD ☼ | E57-08PBU02-GD ☼ |

☐ Fast turn product with typical one day lead-time to shipment.

☼☼ See listing of compatible connector cables on **Page 4-37**.

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## Model Selection — Global Plus Prox Sensors (Continued)

|                                                                                                              |             | Operating Voltage | Sensing Range | Shielding | Output Type              | Connection Type  | Catalog Number   |             |
|--------------------------------------------------------------------------------------------------------------|-------------|-------------------|---------------|-----------|--------------------------|------------------|------------------|-------------|
|                                                                                                              |             |                   |               |           |                          |                  | N.O. Output      | N.C. Output |
| 3-Wire Sensors (Continued)                                                                                   |             |                   |               |           |                          |                  |                  |             |
| <div>12 mm Diameter</div>   | 10 – 30V DC | 2 mm              | Shielded      | NPN       | 2-meter Cable            | E57-12PAS02-C    | E57-12PBS02-C    |             |
|                                                                                                              |             |                   |               |           | 4-pin Micro DC Connector | E57-12PAS02-CD ☹ | E57-12PBS02-CD ☹ |             |
|                                                                                                              |             |                   |               | PNP       | 2-meter Cable            | E57-12PAS02-G    | E57-12PBS02-G    |             |
|                                                                                                              |             |                   |               |           | 4-pin Micro DC Connector | E57-12PAS02-GD ☹ | E57-12PBS02-GD ☹ |             |
|                                                                                                              |             | 4 mm              | Unshielded    | NPN       | 2-meter Cable            | E57-12PAU04-C    | E57-12PBU04-C    |             |
|                                                                                                              |             |                   |               |           | 4-pin Micro DC Connector | E57-12PAU04-CD ☹ | E57-12PBU04-CD ☹ |             |
|                                                                                                              |             |                   |               | PNP       | 2-meter Cable            | E57-12PAU04-G    | E57-12PBU04-G    |             |
|                                                                                                              |             |                   |               |           | 4-pin Micro DC Connector | E57-12PAU04-GD ☹ | E57-12PBU04-GD ☹ |             |
| <div>18 mm Diameter</div>   |             | 5 mm              | Shielded      | NPN       | 2-meter Cable            | E57-18PAS05-C    | E57-18PBS05-C    |             |
|                                                                                                              |             |                   |               |           | 4-pin Micro DC Connector | E57-18PAS05-CD ☹ | E57-18PBS05-CD ☹ |             |
|                                                                                                              |             |                   |               | PNP       | 2-meter Cable            | E57-18PAS05-G    | E57-18PBS05-G    |             |
|                                                                                                              |             |                   |               |           | 4-pin Micro DC Connector | E57-18PAS05-GD ☹ | E57-18PBS05-GD ☹ |             |
|                                                                                                              |             | 8 mm              | Unshielded    | NPN       | 2-meter Cable            | E57-18PAU08-C    | E57-18PBU08-C    |             |
|                                                                                                              |             |                   |               |           | 4-pin Micro DC Connector | E57-18PAU08-CD ☹ | E57-18PBU08-CD ☹ |             |
|                                                                                                              |             |                   |               | PNP       | 2-meter Cable            | E57-18PAU08-G    | E57-18PBU08-G    |             |
|                                                                                                              |             |                   |               |           | 4-pin Micro DC Connector | E57-18PAU08-GD ☹ | E57-18PBU08-GD ☹ |             |
| <div>30 mm Diameter</div>  |             | 10 mm             | Shielded      | NPN       | 2-meter Cable            | E57-30PAS10-C    | E57-30PBS10-C    |             |
|                                                                                                              |             |                   |               |           | 4-pin Micro DC Connector | E57-30PAS10-CD ☹ | E57-30PBS10-CD ☹ |             |
|                                                                                                              |             |                   |               | PNP       | 2-meter Cable            | E57-30PAS10-G    | E57-30PBS10-G    |             |
|                                                                                                              |             |                   |               |           | 4-pin Micro DC Connector | E57-30PAS10-GD ☹ | E57-30PBS10-GD ☹ |             |
|                                                                                                              |             | 15 mm             | Unshielded    | NPN       | 2-meter Cable            | E57-30PAU15-C    | E57-30PBU15-C    |             |
|                                                                                                              |             |                   |               |           | 4-pin Micro DC Connector | E57-30PAU15-CD ☹ | E57-30PBU15-CD ☹ |             |
|                                                                                                              |             |                   |               | PNP       | 2-meter Cable            | E57-30PAU15-G    | E57-30PBU15-G    |             |
|                                                                                                              |             |                   |               |           | 4-pin Micro DC Connector | E57-30PAU15-GD ☹ | E57-30PBU15-GD ☹ |             |

□ Fast turn product with typical one day lead-time to shipment.

⊕ See listing of compatible connector cables below.

Model Selection — Compatible Connector Cables <sup>①</sup>

|                                                                                     | Voltage Style | Number of Pins  | Gauge  | Length        | Catalog Number |               |                | Pin Configuration/Wire Colors<br>(Face View Female Shown)                                                                          |
|-------------------------------------------------------------------------------------|---------------|-----------------|--------|---------------|----------------|---------------|----------------|------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                     |               |                 |        |               | PVC Jacket     | PUR Jacket    | IRR PUR Jacket |                                                                                                                                    |
| Standard Cables — Micro Style                                                       |               |                 |        |               |                |               |                |                                                                                                                                    |
|  | AC            | 3-pin<br>3-wire | 22 AWG | 6.0 feet (2m) | CSAS3F3CY2202  | CSAS3F3RY2202 | —              | <br>1-Green<br>2-Red/Black<br>3-Red/White     |
|                                                                                     | DC            | 4-pin<br>3-wire | 22 AWG | 6.0 feet (2m) | CSDS4A3CY2202  | CSDS4A3RY2202 | —              | <br>1-Brown<br>2-No Wire<br>3-Blue<br>4-Black |
|                                                                                     |               | 4-pin<br>4-wire | 22 AWG | 6.0 feet (2m) | CSDS4A4CY2202  | CSDS4A4RY2202 | CSDS4A4I02202  | <br>1-Brown<br>2-White<br>3-Blue<br>4-Black   |

<sup>①</sup> For a full selection of connector cables, see **Section 10**.

□ Fast turn product with typical one day lead-time to shipment.

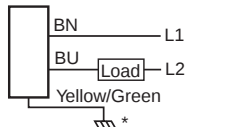
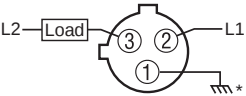
## Model Selection — Accessories

| Description                             | Reference             |
|-----------------------------------------|-----------------------|
| Mounting Brackets and Other Accessories | See <b>Section 8</b>  |
| Connector Cables                        | See <b>Section 10</b> |

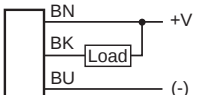
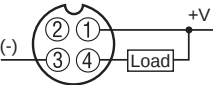
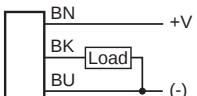
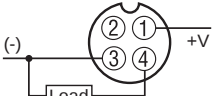
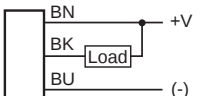
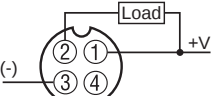
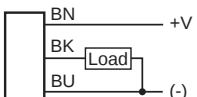
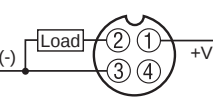
### Wiring Diagrams (Pin numbers are for reference only, rely on pin location when wiring)

| Operating Voltage | Output | Cable Models | Connector Models (Face View Male Shown) |
|-------------------|--------|--------------|-----------------------------------------|
|                   |        |              | Micro                                   |

#### 2-Wire Sensors

|              |           |                                                                                   |                                                                                   |
|--------------|-----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 20 – 250V AC | N.O./N.C. |  |  |
|--------------|-----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|

#### 3-Wire Sensors

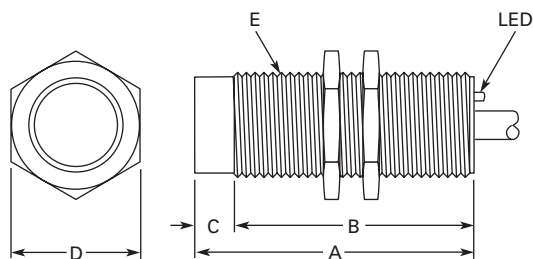
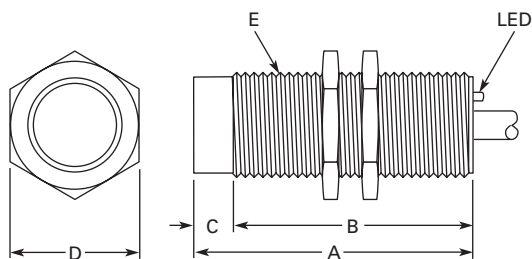
|             |            |                                                                                    |                                                                                    |
|-------------|------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 10 – 30V DC | N.O. (NPN) |   |   |
|             | N.O. (PNP) |   |   |
|             | N.C. (NPN) |   |   |
|             | N.C. (PNP) |  |  |

### Specifications

|                              | 2-Wire                                          | 3-Wire                                                                                                                                                                                         |
|------------------------------|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                              | AC Models                                       | DC Models                                                                                                                                                                                      |
| Operating Voltage            | 20 – 250V AC; 50 – 60 Hz                        | 10 – 30V DC                                                                                                                                                                                    |
| Ripple                       | —                                               | ≤ 10%                                                                                                                                                                                          |
| Current Consumption          | —                                               | < 20 mA                                                                                                                                                                                        |
| Max. Output Current          | 500 mA                                          | M8: 100 mA; Others: 200 mA ± 15%                                                                                                                                                               |
| Output Protection            | —                                               | 1 kV / 10 mS / 10K                                                                                                                                                                             |
| Voltage Drop                 | < 5V                                            | ≤ 2V                                                                                                                                                                                           |
| Inrush Current               | M12: 1A; Others: 4A                             | —                                                                                                                                                                                              |
| Minimum Load Current         | 5 mA                                            | —                                                                                                                                                                                              |
| Surge Current                | 4 mA                                            | —                                                                                                                                                                                              |
| Maximum Switching Frequency  | 10 Hz                                           | 8 mm: 1 kHz (Shielded); 600 Hz (Unshielded)<br>12 mm: 800 Hz (Shielded); 400 Hz (Unshielded)<br>18 mm: 500 Hz (Shielded); 200 Hz (Unshielded)<br>30 mm: 300 Hz (Shielded); 100 Hz (Unshielded) |
| Residual Current             | < 2.5 mA                                        | —                                                                                                                                                                                              |
| Repeat Accuracy              | < 0.01 mm                                       |                                                                                                                                                                                                |
| Short Circuit Protection     | No                                              | Yes                                                                                                                                                                                            |
| Switching Hysteresis         | 5%                                              |                                                                                                                                                                                                |
| Operating Temperature        | -13 – 158°F (-25 – 70°C)                        |                                                                                                                                                                                                |
| Shock and Vibration Immunity | 30g / 55 Hz                                     |                                                                                                                                                                                                |
| EMC                          | IEC 947-5-2, IEC 1000-4-2, 3, 4, 5 / EN 50082-2 |                                                                                                                                                                                                |
| Protection                   | IP67                                            |                                                                                                                                                                                                |
| Housing Material             | Nickel Plated Brass                             |                                                                                                                                                                                                |
| Cable                        | PVC                                             |                                                                                                                                                                                                |

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**Approximate Dimensions in mm — Cable Models**

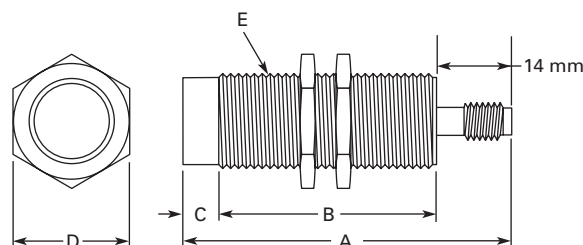
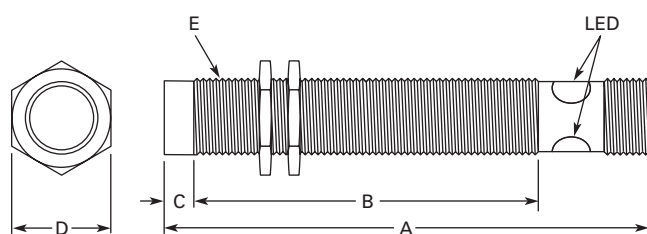


| Operating Voltage | Catalog Number  | Approximate Dimensions in mm |    |    |    |    |
|-------------------|-----------------|------------------------------|----|----|----|----|
|                   |                 | A                            | B  | C  | D  | E  |
| 2-Wire Sensors    |                 |                              |    |    |    |    |
| 20 – 250V AC      | E57-12PAS02-A ① | 60                           | 60 | —  | 17 | 12 |
|                   | E57-12PBS02-A ① | 60                           | 60 | —  | 17 | 12 |
|                   | E57-12PAU04-A ① | 60                           | 52 | 8  | 17 | 12 |
|                   | E57-12PBU04-A ① | 60                           | 52 | 8  | 17 | 12 |
|                   | E57-18PAS05-A   | 50                           | 50 | —  | 24 | 18 |
|                   | E57-18PBS05-A   | 50                           | 50 | —  | 24 | 18 |
|                   | E57-18PAU08-A   | 50                           | 34 | 16 | 24 | 18 |
|                   | E57-18PBU08-A   | 50                           | 34 | 16 | 24 | 18 |
|                   | E57-30PAS10-A   | 50                           | 50 | —  | 36 | 30 |
|                   | E57-30PBS10-A   | 50                           | 50 | —  | 36 | 30 |
|                   | E57-30PAU15-A   | 50                           | 32 | 18 | 36 | 30 |
|                   | E57-30PBU15-A   | 50                           | 32 | 18 | 36 | 30 |

① LED on threaded tube not back end.

| Operating Voltage | Catalog Number | Approximate Dimensions in mm |    |    |    |    |
|-------------------|----------------|------------------------------|----|----|----|----|
|                   |                | A                            | B  | C  | D  | E  |
| 3-Wire Sensors    |                |                              |    |    |    |    |
| 10 – 30V DC       | E57-08PAS15-C  | 45                           | 45 | —  | 11 | 8  |
|                   | E57-08PBS15-C  | 45                           | 45 | —  | 11 | 8  |
|                   | E57-08PAU02-C  | 45                           | 41 | 4  | 11 | 8  |
|                   | E57-08PBU02-C  | 45                           | 41 | 4  | 11 | 8  |
|                   | E57-08PAS15-G  | 45                           | 45 | —  | 11 | 8  |
|                   | E57-08PBS15-G  | 45                           | 45 | —  | 11 | 8  |
|                   | E57-08PAU02-G  | 45                           | 41 | 4  | 11 | 8  |
|                   | E57-08PBU02-G  | 45                           | 41 | 4  | 11 | 8  |
|                   | E57-12PAS02-C  | 50                           | 50 | —  | 17 | 12 |
|                   | E57-12PBS02-C  | 50                           | 50 | —  | 17 | 12 |
|                   | E57-12PAU04-C  | 50                           | 42 | 8  | 17 | 12 |
|                   | E57-12PBU04-C  | 50                           | 42 | 8  | 17 | 12 |
|                   | E57-12PAS02-G  | 50                           | 50 | —  | 17 | 12 |
|                   | E57-12PBS02-G  | 50                           | 50 | —  | 17 | 12 |
|                   | E57-12PAU04-G  | 50                           | 42 | 8  | 17 | 12 |
|                   | E57-12PBU04-G  | 50                           | 42 | 8  | 17 | 12 |
|                   | E57-18PAS05-C  | 50                           | 50 | —  | 24 | 18 |
|                   | E57-18PBS05-C  | 50                           | 50 | —  | 24 | 18 |
|                   | E57-18PAU08-C  | 50                           | 34 | 16 | 24 | 18 |
|                   | E57-18PBU08-C  | 50                           | 34 | 16 | 24 | 18 |
|                   | E57-18PAS05-G  | 50                           | 50 | —  | 24 | 18 |
|                   | E57-18PBS05-G  | 50                           | 50 | —  | 24 | 18 |
|                   | E57-18PAU08-G  | 50                           | 34 | 16 | 24 | 18 |
|                   | E57-18PBU08-G  | 50                           | 34 | 16 | 24 | 18 |
|                   | E57-30PAS10-C  | 50                           | 50 | —  | 36 | 30 |
|                   | E57-30PBS10-C  | 50                           | 50 | —  | 36 | 30 |
|                   | E57-30PAU15-C  | 50                           | 32 | 18 | 36 | 30 |
|                   | E57-30PBU15-C  | 50                           | 32 | 18 | 36 | 30 |
|                   | E57-30PAS10-G  | 50                           | 50 | —  | 36 | 30 |
|                   | E57-30PBS10-G  | 50                           | 50 | —  | 36 | 30 |
|                   | E57-30PAU15-G  | 50                           | 32 | 18 | 36 | 30 |
|                   | E57-30PBU15-G  | 50                           | 32 | 18 | 36 | 30 |

### Approximate Dimensions in mm — Connector Models



| Operating Voltage | Catalog Number | Approximate Dimensions in mm |   |   |   |   |
|-------------------|----------------|------------------------------|---|---|---|---|
|                   |                | A                            | B | C | D | E |

#### 2-Wire Sensors

|              |                |    |    |    |    |    |
|--------------|----------------|----|----|----|----|----|
| 20 – 250V AC | E57-12PAS02-AD | 60 | 38 | —  | 17 | 12 |
|              | E57-12PBS02-AD | 60 | 38 | —  | 17 | 12 |
|              | E57-12PAU04-AD | 60 | 38 | 8  | 17 | 12 |
|              | E57-12PBU04-AD | 60 | 38 | 8  | 17 | 12 |
|              | E57-18PAS05-AD | 66 | 50 | —  | 24 | 18 |
|              | E57-18PBS05-AD | 66 | 50 | —  | 24 | 18 |
|              | E57-18PAU08-AD | 66 | 50 | 16 | 24 | 18 |
|              | E57-18PBU08-AD | 66 | 50 | 16 | 24 | 18 |
|              | E57-30PAS10-AD | 66 | 50 | —  | 36 | 30 |
|              | E57-30PBS10-AD | 66 | 50 | —  | 36 | 30 |
|              | E57-30PAU15-AD | 66 | 50 | 18 | 36 | 30 |
|              | E57-30PBU15-AD | 66 | 50 | 18 | 36 | 30 |

#### 3-Wire Sensors

|             |                |    |    |   |    |    |
|-------------|----------------|----|----|---|----|----|
| 10 – 30V DC | E57-08PAS15-CD | 65 | 45 | — | 11 | 8  |
|             | E57-08PBS15-CD | 65 | 45 | — | 11 | 8  |
|             | E57-08PAU02-CD | 65 | 41 | 4 | 11 | 8  |
|             | E57-08PBU02-CD | 65 | 41 | 4 | 11 | 8  |
|             | E57-08PAS15-GD | 65 | 45 | — | 11 | 8  |
|             | E57-08PBS15-GD | 65 | 45 | — | 11 | 8  |
|             | E57-08PAU02-GD | 65 | 41 | 4 | 11 | 8  |
|             | E57-08PBU02-GD | 65 | 41 | 4 | 11 | 8  |
|             | E57-12PAS02-CD | 60 | 38 | — | 17 | 12 |
|             | E57-12PBS02-CD | 60 | 38 | — | 17 | 12 |
|             | E57-12PAU04-CD | 60 | 38 | 8 | 17 | 12 |
|             | E57-12PBU04-CD | 60 | 38 | 8 | 17 | 12 |
|             | E57-12PAS02-GD | 60 | 38 | — | 17 | 12 |
|             | E57-12PBS02-GD | 60 | 38 | — | 17 | 12 |
|             | E57-12PAU04-GD | 60 | 38 | 8 | 17 | 12 |
|             | E57-12PBU04-GD | 60 | 38 | 8 | 17 | 12 |

| Operating Voltage | Catalog Number | Approximate Dimensions in mm |   |   |   |   |
|-------------------|----------------|------------------------------|---|---|---|---|
|                   |                | A                            | B | C | D | E |

#### 3-Wire Sensors

|             |                |    |    |    |    |    |
|-------------|----------------|----|----|----|----|----|
| 10 – 30V DC | E57-18PAS05-CD | 64 | 50 | —  | 24 | 18 |
|             | E57-18PBS05-CD | 64 | 50 | —  | 24 | 18 |
|             | E57-18PAU08-CD | 64 | 34 | 16 | 24 | 18 |
|             | E57-18PBU08-CD | 64 | 34 | 16 | 24 | 18 |
|             | E57-18PAS05-GD | 64 | 50 | —  | 24 | 18 |
|             | E57-18PBS05-GD | 64 | 50 | —  | 24 | 18 |
|             | E57-18PAU08-GD | 64 | 34 | 16 | 24 | 18 |
|             | E57-18PBU08-GD | 64 | 34 | 16 | 24 | 18 |
|             | E57-30PAS10-CD | 64 | 50 | —  | 36 | 30 |
|             | E57-30PBS10-CD | 64 | 50 | —  | 36 | 30 |
|             | E57-30PAU15-CD | 64 | 32 | 18 | 36 | 30 |
|             | E57-30PBU15-CD | 64 | 32 | 18 | 36 | 30 |
|             | E57-30PAS10-GD | 64 | 50 | —  | 36 | 30 |
|             | E57-30PBS10-GD | 64 | 50 | —  | 36 | 30 |
|             | E57-30PAU15-GD | 64 | 32 | 18 | 36 | 30 |
|             | E57-30PBU15-GD | 64 | 32 | 18 | 36 | 30 |