

## Accessories

### E57PS Performance Short Body Sensors

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

## Technical Data and Specifications

### E57PS Performance Short Body Sensors

| Description              | Three-Wire DC Sensors                                                                                                    |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Operating voltage        | 10–48 Vdc                                                                                                                |
| Maximum load current     | 300 mA                                                                                                                   |
| Switching frequency [Hz] | 12 mm—Shielded: 2000; Unshielded: 2000<br>18 mm—Shielded: 1200; Unshielded: 1200<br>30 mm—Shielded: 600; Unshielded: 500 |
| Leakage current          | 100 $\mu$ A maximum                                                                                                      |
| Voltage drop             | $\leq 2.5$ V                                                                                                             |
| Holding current          | $\leq 10$ mA                                                                                                             |
| Short-circuit protection | Yes (Auto Reset)                                                                                                         |
| Switching hysteresis     | 2–20% of rated sensing distance                                                                                          |
| Repeat accuracy          | 1% shielded, 3% unshielded                                                                                               |
| Output indicator LED     | 360° amber LED                                                                                                           |
| Operating temperature    | –40 to 158 °F (–40 to 70 °C)                                                                                             |
| Enclosure ratings        | IP67, IP69K; NEMA 4, 4X, 6, 6P                                                                                           |
| Shock                    | 30 g sine wave, 11 ms per IEC68-2-76                                                                                     |
| Vibration                | 10 to 55 Hz, 1 mm amplitude                                                                                              |
| Material of construction | Stainless steel, polycarbonate end bells, Ryton® front cap                                                               |
| Cable                    | AWM Style 20387 (PVC)                                                                                                    |

#### Note

Ryton® is a registered trademark of Phillips Chemical (division of Phillips Petroleum).

## Wiring Diagrams

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

### E57PS Performance Short Body Sensors

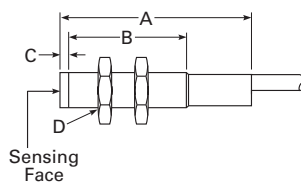
| Operating Voltage         | Output   | Cable Models | Micro-Connector Models<br>(Face View Male Shown) |
|---------------------------|----------|--------------|--------------------------------------------------|
| <b>Three-Wire Sensors</b> |          |              |                                                  |
| 10–48 Vdc                 | NO (NPN) |              |                                                  |
|                           | NO (PNP) |              |                                                  |
|                           | NC (NPN) |              |                                                  |
|                           | NC (PNP) |              |                                                  |

## Dimensions

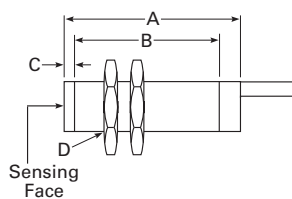
Approximate Dimensions in Inches (mm)

### E57PS Performance Short Body Sensors—Cable Models

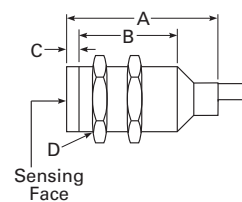
#### 12 mm



#### 18 mm



#### 30 mm



| Size                         | Shielding  | Overall Length<br>A | Threaded Length<br>B | Cap Height<br>C | Thread Size<br>D |
|------------------------------|------------|---------------------|----------------------|-----------------|------------------|
| <b>Three-Wire DC Sensors</b> |            |                     |                      |                 |                  |
| 12 mm                        | Shielded   | 1.61 (40.9)         | 1.07 (27.2)          | —               | M12 x 1          |
|                              | Unshielded | 1.61 (40.9)         | 0.89 (22.7)          | 0.20 (5.0)      | M12 x 1          |
| 18 mm                        | Shielded   | 1.77 (44.9)         | 1.17 (29.8)          | —               | M18 x 1          |
|                              | Unshielded | 1.77 (44.9)         | 0.92 (23.3)          | 0.28 (7.0)      | M18 x 1          |
| 30 mm                        | Shielded   | 1.84 (46.6)         | 1.15 (29.3)          | —               | M30 x 1.5        |
|                              | Unshielded | 1.84 (46.6)         | 0.66 (16.8)          | 0.51 (13.0)     | M30 x 1.5        |