

## E57P Performance Series Sensors

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## E57P Performance Series Sensors

## Product Description

For sensing applications requiring more demanding specifications, the new E57P Performance series incorporates premium features without the premium price. With its stainless steel tubular body, IP69K rating, wide temperature range (down to -40 °C), fast switching speed and laser-etched markings, the E57P series provides value at a low price point.

## Features

- 360° LED indicator
- Stainless steel tube
- 10–48 Vdc operating voltage
- Short-circuit protection
- -40 to 70 °C temperature range
- IP69K environmental rating
- Durable laser-engraved label
- Available in cable and micro-connector styles

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## Standards and Certifications

- cULus Listed
- CE


 **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](http://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

## E57P Performance Sensors

## Three-Wire Sensors

|                                                                                     | Operating Voltage                 | Sensing Range (Sn)     | Shielding        | Connection Type <sup>①</sup> | NO Output Catalog Number | NC Output Catalog Number |
|-------------------------------------------------------------------------------------|-----------------------------------|------------------------|------------------|------------------------------|--------------------------|--------------------------|
| <b>12 mm</b>                                                                        | <b>12 mm Diameter End Sensing</b> |                        |                  |                              |                          |                          |
|    | 10–48 Vdc                         | 2 mm (standard range)  | Shielded (PNP)   | 2-meter cable                | <b>E57P-12SPN2-C2</b>    | <b>E57P-12SPC2-C2</b>    |
|                                                                                     |                                   |                        |                  | 4-pin micro DC connector     | <b>E57P-12SPN2-Q</b>     | <b>E57P-12SPC2-Q</b>     |
|                                                                                     |                                   |                        | Shielded (NPN)   | 2-meter cable                | <b>E57P-12SNN2-C2</b>    | <b>E57P-12SNC2-C2</b>    |
|                                                                                     |                                   |                        |                  | 4-pin micro DC connector     | <b>E57P-12SNN2-Q</b>     | <b>E57P-12SNC2-Q</b>     |
|                                                                                     |                                   | 4 mm (standard range)  | Unshielded (PNP) | 2-meter cable                | <b>E57P-12UPN4-C2</b>    | <b>E57P-12UPC4-C2</b>    |
|                                                                                     |                                   |                        |                  | 4-pin micro DC connector     | <b>E57P-12UPN4-Q</b>     | <b>E57P-12UPC4-Q</b>     |
|                                                                                     |                                   |                        | Unshielded (NPN) | 2-meter cable                | <b>E57P-12UNN4-C2</b>    | <b>E57P-12UNC4-C2</b>    |
|                                                                                     |                                   |                        |                  | 4-pin micro DC connector     | <b>E57P-12UNN4-Q</b>     | <b>E57P-12UNC4-Q</b>     |
|                                                                                     |                                   | 4 mm (extended range)  | Shielded (PNP)   | 2-meter cable                | <b>E57P-12SPN4-C2</b>    | <b>E57P-12SPC4-C2</b>    |
|                                                                                     |                                   |                        |                  | 4-pin micro DC connector     | <b>E57P-12SPN4-Q</b>     | <b>E57P-12SPC4-Q</b>     |
|                                                                                     |                                   |                        | Shielded (NPN)   | 2-meter cable                | <b>E57P-12SNN4-C2</b>    | <b>E57P-12SNC4-C2</b>    |
|                                                                                     |                                   |                        |                  | 4-pin micro DC connector     | <b>E57P-12SNN4-Q</b>     | <b>E57P-12SNC4-Q</b>     |
|  | 10–48 Vdc                         | 5 mm (standard range)  | Shielded (PNP)   | 2-meter cable                | <b>E57P-18SPN5-C2</b>    | <b>E57P-18SPC5-C2</b>    |
|                                                                                     |                                   |                        |                  | 4-pin micro DC connector     | <b>E57P-18SPN5-Q</b>     | <b>E57P-18SPC5-Q</b>     |
|                                                                                     |                                   |                        | Shielded (NPN)   | 2-meter cable                | <b>E57P-18SNN5-C2</b>    | <b>E57P-18SNC5-C2</b>    |
|                                                                                     |                                   |                        |                  | 4-pin micro DC connector     | <b>E57P-18SNN5-Q</b>     | <b>E57P-18SNC5-Q</b>     |
|                                                                                     |                                   | 8 mm (standard range)  | Unshielded (PNP) | 2-meter cable                | <b>E57P-18UPN8-C2</b>    | <b>E57P-18UPC8-C2</b>    |
|                                                                                     |                                   |                        |                  | 4-pin micro DC connector     | <b>E57P-18UPN8-Q</b>     | <b>E57P-18UPC8-Q</b>     |
|                                                                                     |                                   |                        | Unshielded (NPN) | 2-meter cable                | <b>E57P-18UNN8-C2</b>    | <b>E57P-18UNC8-C2</b>    |
|                                                                                     |                                   |                        |                  | 4-pin micro DC connector     | <b>E57P-18UNN8-Q</b>     | <b>E57P-18UNC8-Q</b>     |
|                                                                                     |                                   | 8 mm (extended range)  | Shielded (PNP)   | 2-meter cable                | <b>E57P-18SPN8-C2</b>    | <b>E57P-18SPC8-C2</b>    |
|                                                                                     |                                   |                        |                  | 4-pin micro DC connector     | <b>E57P-18SPN8-Q</b>     | <b>E57P-18SPC8-Q</b>     |
|                                                                                     |                                   |                        | Shielded (NPN)   | 2-meter cable                | <b>E57P-18SNN8-C2</b>    | <b>E57P-18SNC8-C2</b>    |
|                                                                                     |                                   |                        |                  | 4-pin micro DC connector     | <b>E57P-18SNN8-Q</b>     | <b>E57P-18SNC8-Q</b>     |
|                                                                                     |                                   | 12 mm (extended range) | Unshielded (PNP) | 2-meter cable                | <b>E57P-18UPN12-C2</b>   | <b>E57P-18UPC12-C2</b>   |
|                                                                                     |                                   |                        |                  | 4-pin micro DC connector     | <b>E57P-18UPN12-Q</b>    | <b>E57P-18UPC12-Q</b>    |
|                                                                                     |                                   |                        | Unshielded (NPN) | 2-meter cable                | <b>E57P-18UNN12-C2</b>   | <b>E57P-18UNC12-C2</b>   |
|                                                                                     |                                   |                        |                  | 4-pin micro DC connector     | <b>E57P-18UNN12-Q</b>    | <b>E57P-18UNC12-Q</b>    |

## Notes

⊕ See listing of compatible connector cables on [Page V8-T3-20](#).

① For cable lengths longer than 2 meters, add the number of the desired length in meters to the end of the listed catalog number (for catalog numbers ending with a number, add an **S** and then the length). Examples for a 5-meter cable: E57-18LE12-A becomes E57-18LE12-A**5**; E57LAL12A2 becomes E57LAL12A2**5S**.