



Proximity switch, E57 Miniatur Series, 1 N/O, 3-wire, 10 - 30 V DC, 6,5 mm, Sn= 1 mm, Flush, NPN, Stainless steel, 2 m connection cable



Powering Business Worldwide™

**Part no.** E57EAL6T110SP  
**Catalog No.** 136243  
**Alternate Catalog No.** E57EAL6T110SP

## Delivery program

|                           |       |    |                      |
|---------------------------|-------|----|----------------------|
| Basic function            |       |    | Inductive Sensors    |
| Product range             |       |    | E57 Miniatur Series  |
| Connection                |       |    | 3-wire               |
| Design (outer dimensions) |       | mm | ∅ 6,5                |
| Rated operational voltage | $U_e$ |    | 10 - 30 V DC         |
| Rated switching distance  | $S_n$ | mm | 1                    |
| Type of mounting          |       |    | Flush                |
| Switching type            |       |    | NPN                  |
| For connection of:        |       |    | 2 m connection cable |
| <b>Contacts</b>           |       |    |                      |
| N/O = Normally open       |       |    | 1 N/O                |
| Material                  |       |    | Stainless steel      |
| Degree of Protection      |       |    | IP67                 |

## Technical data

### General

|                             |  |   |                            |
|-----------------------------|--|---|----------------------------|
| Standards                   |  |   | IEC/EN 60947-5             |
| Ambient temperature         |  |   | -25 - +70                  |
| Mechanical shock resistance |  | g | 30<br>Shock duration 11 ms |
| Degree of Protection        |  |   | IP67                       |

### Characteristics

|  |       |     |                                 |
|--|-------|-----|---------------------------------|
| Rated switching distance   |       |     |                                 |
| Rated switching distance   | $S_n$ | mm  | 1                               |
| Repetition accuracy of $S_n$   |       | %   | 1                               |
| Temperature drift of $S_n$   |       | %   | 10                              |
| Switching hysteresis of $S_n$  |       | %   | 15                              |
| Rated operational voltage  | $U_e$ |     | 10 - 30 V DC                    |
| Maximum load current   | $I_e$ | mA  | < 200                           |
| Operating current in the switched state at 24 V DC                             | $I_b$ | mA  | 10                              |
| Voltage drop at $I_e$  | $U_d$ | V   | 1.5                             |
| Switching Frequency  |       | Hz  | 2000                            |
| Residual current through the load in the blocked state at 230 V AC and 24 V DC | $I_r$ | mA  | 0.01                            |
| Switching state display  |       | LED | Red                             |
| Protective functions   |       |     | Short-circuit protective device |
| Connection   |       |     | 3-wire                          |
| Contacts   |       |     |                                 |
| N/O = Normally open  |       |     | 1 N/O                           |
| Style  |       |     |                                 |
| Design (outer dimensions)  |       | mm  | ∅ 6,5                           |
| For connection of:   |       |     | 2 m connection cable            |
| Material   |       |     | Stainless steel                 |

## Design verification as per IEC/EN 61439

|  |  |  |  |
|--|--|--|--|
| Technical data for design verification |  |  |  |
|--|--|--|--|

|                                    |    |     |
|------------------------------------|----|-----|
| Operating ambient temperature min. | °C | -25 |
| Operating ambient temperature max. | °C | 70  |

## Technical data ETIM 7.0

Sensors (EG000026) / Inductive proximity switch (EC002714)

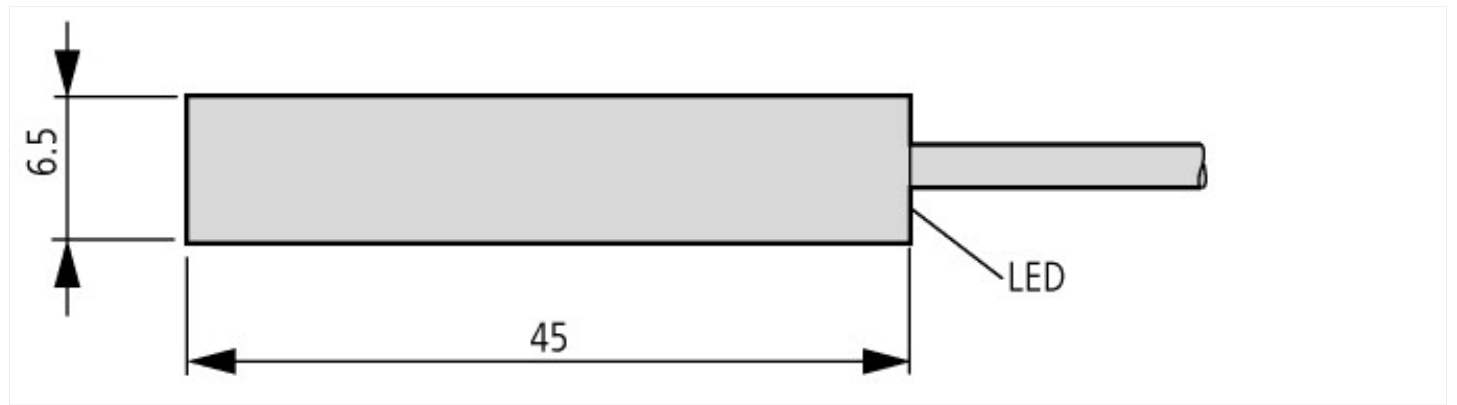
Electric engineering, automation, process control engineering / Binary sensor technology, safety-related sensor technology / Proximity switch / Inductive proximity switch (ec@ss10.0.1-27-27-01-01 [AGZ376015])

|  |    |                       |
|--|----|-----------------------|
| Width sensor   | mm | 0                     |
| Height of sensor   | mm | 0                     |
| Length of sensor   | mm | 45                    |
| Diameter sensor  | mm | 6                     |
| Mechanical mounting condition for sensor                     |    | Concise               |
| Switching distance   | mm | 1                     |
| Suitable for safety functions                                |    | No                    |
| Type of switch function                                      |    | Normally open contact |
| Type of switching output                                     |    | NPN                   |
| Type of electric connection                                  |    | Cable                 |
| Number of semiconductor outputs with signalling function     |    | 1                     |
| Number of contact energized outputs with signalling function |    | 0                     |
| Number of protected semiconductor outputs                    |    | 0                     |
| Number of protected contact energized outputs                |    | 0                     |
| Type of actuation  |    | Metallic Target       |
| Type of interface  |    | None                  |
| Type of interface for safety communication                   |    | None                  |
| Construction type housing                                    |    | Cylinder plain        |
| Coating housing  |    | Other                 |
| Cascadable   |    | No                    |
| Category according to EN 954-1                               |    | B                     |
| SIL according to IEC 61508                                   |    | None                  |
| Performance level acc. EN ISO 13849-1                        |    | None                  |
| Max. output current at protected output                      | mA | 0                     |
| Supply voltage   | V  | 10 - 30               |
| Rated control supply voltage Us at AC 50HZ                   | V  | 0 - 0                 |
| Rated control supply voltage Us at AC 60HZ                   | V  | 0 - 0                 |
| Rated control supply voltage Us at DC                        | V  | 10 - 30               |
| Voltage type   |    | DC                    |
| Switching frequency  | Hz | 2000                  |
| With monitoring function downstream switching devices        |    | No                    |
| Material housing   |    | Metal                 |
| Compression-resistant  |    | No                    |
| Explosion safety category for gas                            |    | None                  |
| Explosion safety category for dust                           |    | None                  |
| Interference resistance to magnetic fields                   |    |                       |

## Approvals

|                      |  |                           |
|----------------------|--|---------------------------|
| Product Standards    |  | CE marking                |
| Max. Voltage Rating  |  | 30 V DC                   |
| Degree of Protection |  | IEC: IP67; UL/CSA Type: - |

## Dimensions



## Assets (links)

[Declaration of CE Conformity](#)

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