



**Proximity switch, E57 Miniatur Series, 1 N/O, 3-wire, 10 - 30 V DC, 6,5 mm, S<sub>n</sub>= 2 mm, Non-flush, PNP, Stainless steel, 2 m connection cable**



**Part no.** E57EAL6T111EP  
**Catalog No.** 136244  
**Alternate Catalog No.** E57EAL6T111EP  
**EL-Nummer (Norway)** 4315393

## Delivery program

|                           |                |    |                      |
|---------------------------|----------------|----|----------------------|
| Basic function            |                |    | Inductive Sensors    |
| Product range             |                |    | E57 Miniatur Series  |
| Connection                |                |    | 3-wire               |
| Design (outer dimensions) |                | mm | Ø 6,5                |
| Rated operational voltage | U <sub>e</sub> |    | 10 - 30 V DC         |
| Rated switching distance  | S <sub>n</sub> | mm | 2                    |
| Type of mounting          |                |    | Non-flush            |
| Switching type            |                |    | PNP                  |
| 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 <sub>n</sub> | mm  | 2                               |
| Repetition accuracy of S <sub>n</sub>                                          |                | %   | 1                               |
| Temperature drift of S <sub>n</sub>                                            |                | %   | 10                              |
| Switching hysteresis of S <sub>n</sub>                                         |                | %   | 15                              |
| Rated operational voltage                                                      | U <sub>e</sub> |     | 10 - 30 V DC                    |
| Maximum load current                                                           | I <sub>e</sub> | mA  | < 200                           |
| Operating current in the switched state at 24 V DC                             | I <sub>b</sub> | mA  | 10                              |
| Voltage drop at I <sub>e</sub>                                                 | U <sub>d</sub> | 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 <sub>r</sub> | 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  | Ø 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 (ecI@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                                                                                                                                                                          |  |    | Not flat              |
| Switching distance                                                                                                                                                                                                |  | mm | 2                     |
| Suitable for safety functions                                                                                                                                                                                     |  |    | No                    |
| Type of switch function                                                                                                                                                                                           |  |    | Normally open contact |
| Type of switching output                                                                                                                                                                                          |  |    | PNP                   |
| 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

