



Proximity switch, inductive, 1 N/C, S<sub>n</sub>=10mm, 3L, 10-30VDC, PNP, M30, insulated material, line 2m

**Part no.** E55CBL30T111  
**Catalog No.** 135848  
**Alternate Catalog No.** E55CBL30T111

## Delivery program

|                           |                |    |                               |
|---------------------------|----------------|----|-------------------------------|
| Basic function            |                |    | Inductive Sensors             |
| Product range             |                |    | E55 Limit Switch Style Series |
| Connection                |                |    | 3-wire                        |
| Design (outer dimensions) |                | mm | M30 x 1.5                     |
| Rated operational voltage | U <sub>e</sub> |    | 10 - 30 V DC                  |
| Rated switching distance  | S <sub>n</sub> | mm | 10                            |
| Type of mounting          |                |    | Flush                         |
| Switching type            |                |    | PNP                           |
| For connection of:        |                |    | 2 m connection cable          |
| <b>Contacts</b>           |                |    |                               |
| N/C = Normally closed     |                |    | 1 NC                          |
| Material                  |                |    | Insulated material            |
| Degree of Protection      |                |    | IP66                          |

## Technical data

### General

|                             |  |   |                            |
|-----------------------------|--|---|----------------------------|
| Standards                   |  |   | IEC/EN 60947-5-2           |
| Ambient temperature         |  |   | -25 - +70                  |
| Mechanical shock resistance |  | g | 30<br>Shock duration 11 ms |
| Degree of Protection        |  |   | IP66                       |

### Characteristics

|  |                |     |   |
|--|----------------|-----|---|
| Rated switching distance               |                |     |   |
| Rated switching distance               | S <sub>n</sub> | mm  | 10  |
| Repetition accuracy of S <sub>n</sub>  |                | %   | 10  |
| Temperature drift of S <sub>n</sub>    |                | %   | 10  |
| Switching hysteresis of S <sub>n</sub> |                | %   | 20  |
| Rated operational voltage              | U <sub>e</sub> |     | 10 - 30 V DC  |
| Supply frequency                       |                |     | 50 - 60   |
| Residual ripple of U <sub>e</sub>      |                | %   | 10  |
| Maximum load current                   | I <sub>e</sub> | mA  | < 200   |
| Voltage drop at I <sub>e</sub>         | U <sub>d</sub> | V   | 8   |
| Switching Frequency                    |                | Hz  | 300   |
| Switching state display                |                | LED | Red   |
| Protective functions                   |                |     | Short-circuit protective device<br>Protection against polarity reversal |
| Connection                             |                |     | 3-wire  |
| Contacts                               |                |     |   |
| N/C = Normally closed                  |                |     | 1 NC  |
| Style                                  |                |     |   |
| Design (outer dimensions)              |                | mm  | M30 x 1.5   |
| For connection of:                     |                |     | 2 m connection cable  |
| Material                               |                |     | Insulated material  |

## 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)

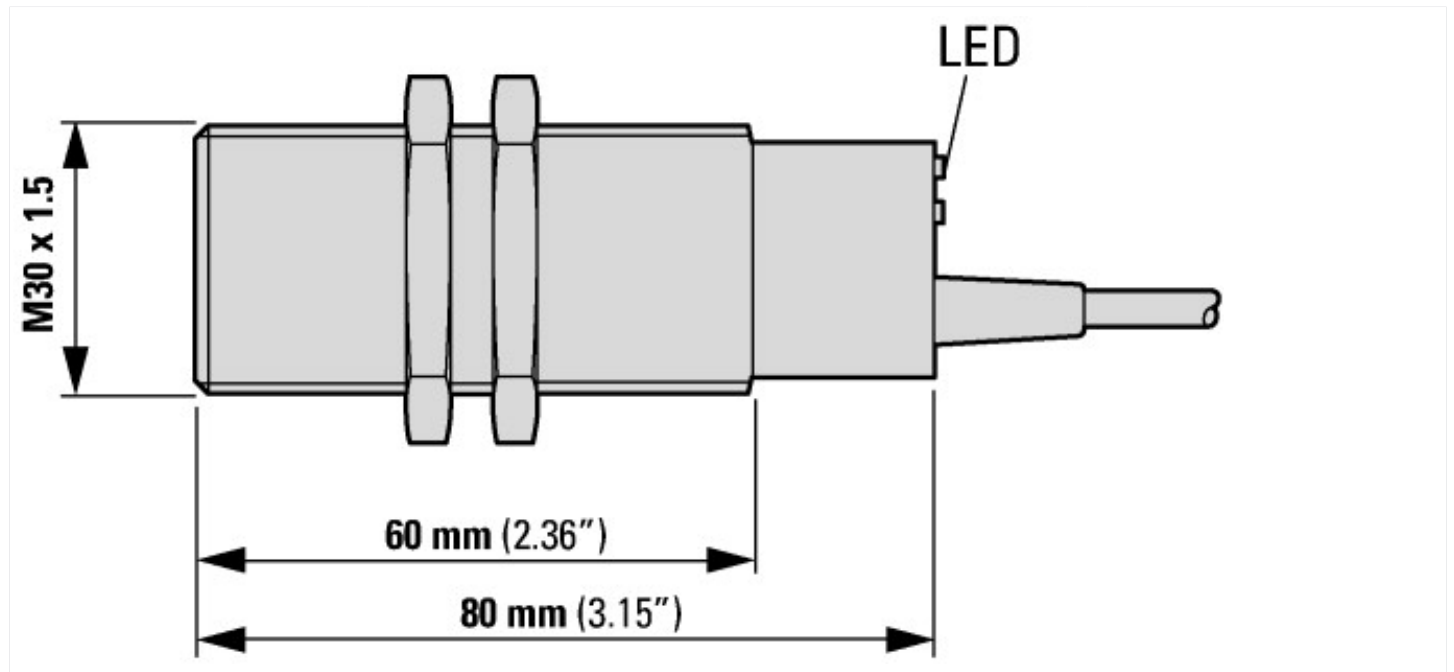
Electric engineering, automation, process control engineering / Binary sensor technology, safety-related sensor technology / Proximity switch / Inductive proximity switch (ecI@ss10.0.1-27-27-01-01 [AGZ376015])

|  |    |                        |
|--|----|------------------------|
| Width sensor   | mm | 0                      |
| Height of sensor   | mm | 0                      |
| Length of sensor   | mm | 80                     |
| Diameter sensor  | mm | 30                     |
| Mechanical mounting condition for sensor                     |    | Concise                |
| Switching distance   | mm | 10                     |
| Suitable for safety functions                                |    | No                     |
| Type of switch function                                      |    | Breaker 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, screw-thread |
| 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 | 300                    |
| With monitoring function downstream switching devices        |    | No                     |
| Material housing   |    | Plastic                |
| 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: IP66; UL/CSA: NEMA 4, 4X, 13 |

## Dimensions



## Assets (links)

### Declaration of CE Conformity

00003158

### Instruction Leaflets

IL05301005Z2018\_05

## Additional product information (links)

### IL05301005Z E55 Series Barrel-Style Inductive Sensors

IL05301005Z E55 Series Barrel-Style Inductive Sensors [ftp://ftp.moeller.net/DOCUMENTATION/AWA\\_INSTRUCTIONS/IL05301005Z2018\\_05.pdf](ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL05301005Z2018_05.pdf)