



Proximity switch, E57 Global Series, 1 N/O, 3-wire, 10 - 30 V DC, M8 x 1 mm, S<sub>n</sub>= 3 mm, Flush, PNP, Stainless steel, 2 m connection cable

**Part no.** E57-08GE03-G  
**Catalog No.** 135853  
**Alternate Catalog No.** E57-08GE03-G

## Delivery program

|                           |                |    |                      |
|---------------------------|----------------|----|----------------------|
| Basic function            |                |    | Inductive Sensors    |
| Product range             |                |    | E57 Global Series    |
| Connection                |                |    | 3-wire               |
| Design (outer dimensions) |                | mm | M8 x 1               |
| Rated operational voltage | U <sub>e</sub> |    | 10 - 30 V DC         |
| Rated switching distance  | S <sub>n</sub> | mm | 3                    |
| Type of mounting          |                |    | 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, IP69           |

## Technical data

### General

|                             |  |   |                            |
|-----------------------------|--|---|----------------------------|
| Standards                   |  |   | IEC/EN 60947-5-2           |
| Ambient temperature         |  |   | 0 - +60                    |
| Mechanical shock resistance |  | g | 30<br>Shock duration 11 ms |
| Degree of Protection        |  |   | IP67, IP69                 |

### Characteristics

|  |                |     |   |
|--|----------------|-----|---|
| Rated switching distance   |                |     |   |
| Rated switching distance   | S <sub>n</sub> | mm  | 3   |
| 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  |
| Residual ripple of U <sub>e</sub>  |                | %   | 10  |
| Maximum load current   | I <sub>e</sub> | mA  | < 100   |
| 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<br>Protection against polarity reversal<br>Protection against wire breakage |
| Connection   |                |     | 3-wire  |
| Contacts   |                |     |   |
| N/O = Normally open  |                |     | 1 N/O   |
| Style  |                |     |   |
| Design (outer dimensions)  |                | mm  | M8 x 1  |
| 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 | 0  |
| Operating ambient temperature max.     | °C | 60 |

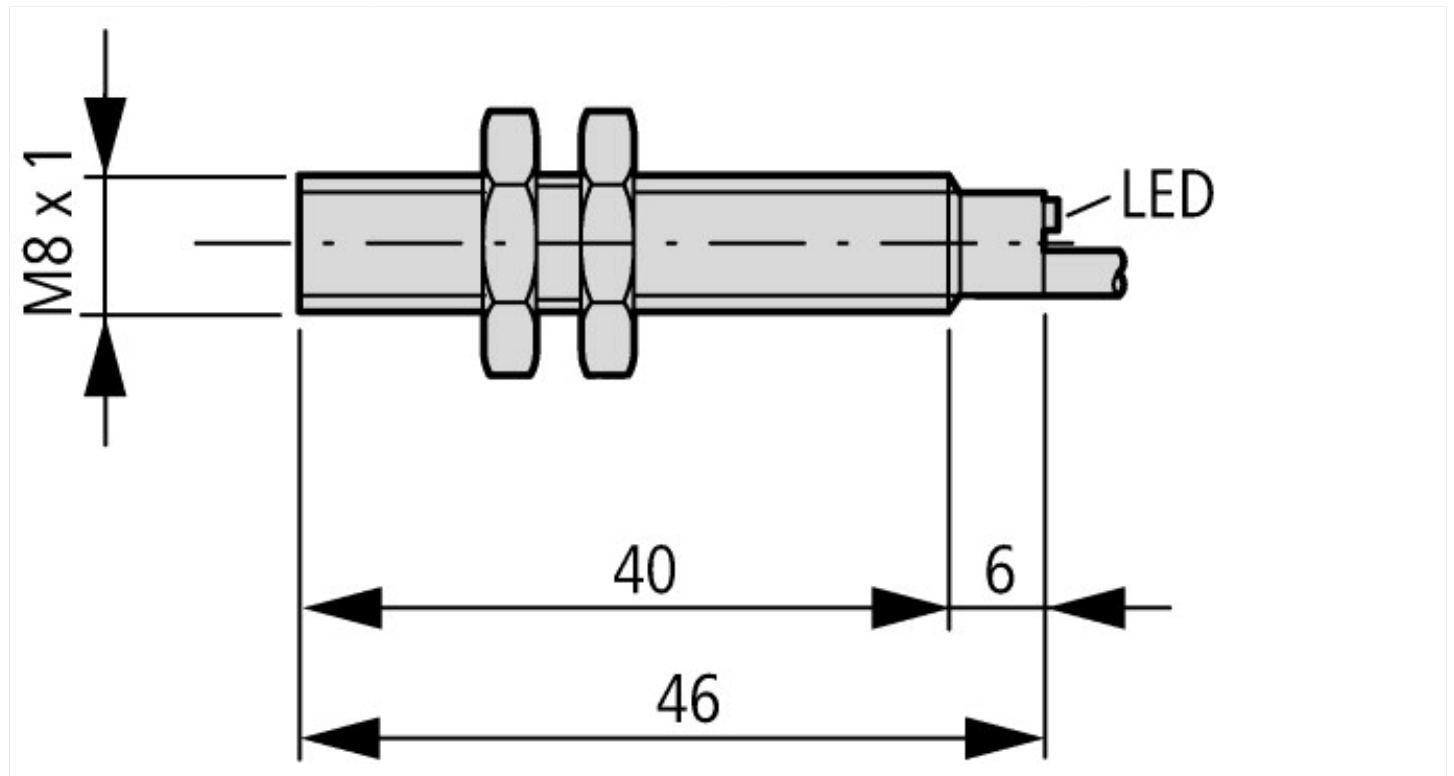
## Technical data ETIM 7.0

|   |    |                        |
|---|----|------------------------|
| Sensors (EG000026) / Inductive proximity switch (EC002714)  |    |                        |
| Electric engineering, automation, process control engineering / Binary sensor technology, safety-related sensor technology / Proximity switch / Inductive proximity switch (ecl@ss10.0.1-27-27-01-01 [AGZ376015]) |    |                        |
| Width sensor  | mm | 0                      |
| Height of sensor  | mm | 0                      |
| Length of sensor  | mm | 46                     |
| Diameter sensor   | mm | 8                      |
| Mechanical mounting condition for sensor  |    | Concise                |
| Switching distance  | mm | 3                      |
| 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, 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 | 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           |  | UL 508; CSA-C22.2 No. 14; IEC60947-5-2; CE marking |
| UL File No.                 |  | CSA report applies to both Canada and US           |
| UL Category Control No.     |  | -  |
| CSA File No.                |  | 224447   |
| CSA Class No.               |  | 4652-04 / 4652-84                                  |
| North America Certification |  | CSA certified, certified by CSA for use in the US  |
| Max. Voltage Rating         |  | 30 V DC  |
| Degree of Protection        |  | IEC: IP67, IP69K; UL/CSA Type: -                   |

## Dimensions



## Assets (links)

### Declaration of CE Conformity

00003158

### Instruction Leaflets

IL05301002Z2018\_05

## Additional product information (links)

### IL05301002Z Global Series Inductive Sensors

IL05301002Z Global Series Inductive Sensors [ftp://ftp.moeller.net/DOCUMENTATION/AWA\\_INSTRUCTIONS/IL05301002Z2018\\_05.pdf](ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL05301002Z2018_05.pdf)