



Proximity switch, E57G General Purpose Serie, 1 N/O, 3-wire, 10 - 30 V DC, M12 x 1 mm, S_n= 4 mm, Flush, PNP, Stainless steel, Plug-in connection M12 x 1

Part no. E57G-12SPN4-Q
Catalog No. 197690
Alternate Catalog No. E57G-12SPN4-Q

Delivery program

| | | | |
|---------------------------|----------------|----|-----------------------------|
| Basic function | | | Inductive Sensors |
| Product range | | | E57G general purpose series |
| Connection | | | 3-wire |
| Design (outer dimensions) | | mm | M12 x 1 |
| Rated operational voltage | U _e | | 10 - 30 V DC |
| Rated switching distance | S _n | mm | 4 |
| Type of mounting | | | Flush |
| Switching type | | | PNP |
| For connection of: | | | Plug-in connection M12 x 1 |
| Contacts | | | |
| N/O = Normally open | | | 1 N/O |
| Material | | | Stainless steel |
| Degree of Protection | | | IP67 |

Technical data

General

| | | | |
|-----------------------------|--|---|----------------------------|
| Standards | | | IEC/EN 60947-5-2 |
| Ambient temperature | | | -25 - +70 |
| Mechanical shock resistance | | g | 30 Shock duration 11 ms |
| Degree of Protection | | | IP67 |
| Vibration | | | Amplitude 1 mm: 10 - 55 Hz |

Characteristics

| | | | |
|--|----------------|-----|---------------------------------|
| Rated switching distance | | | |
| Rated switching distance | S _n | mm | 4 |
| Repetition accuracy of S _n | | % | 1 |
| Temperature drift of S _n | | % | 10 |
| Switching hysteresis of S _n | | % | 20 |
| Range | | mm | 4 |
| Rated operational voltage | U _e | | 10 - 30 V DC |
| Maximum load current | I _e | mA | < 100 |
| Operating current in the switched state at 24 V DC | I _b | mA | 10 |
| Voltage drop at I _e | U _d | V | 2.5 |
| Switching Frequency | | Hz | 1200 |
| Response time | | ms | 200 |
| Min. load current | I _e | mA | 1 |
| Switching state display | | LED | Yellow |
| Protective functions | | | Short-circuit protective device |
| Connection | | | 3-wire |
| Contacts | | | |
| N/O = Normally open | | | 1 N/O |
| Style | | | |
| Design (outer dimensions) | | mm | M12 x 1 |
| For connection of: | | | Plug-in connection M12 x 1 |

| | | |
|----------|--|-----------------|
| 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 | 68.7 |
| Diameter sensor | mm | 12 |
| Mechanical mounting condition for sensor | | Concise |
| Switching distance | mm | 4 |
| Suitable for safety functions | | No |
| Type of switch function | | Normally open contact |
| Type of switching output | | PNP |
| Type of electric connection | | Connector M12 |
| 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 - 48 |
| 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 | 6 - 48 |
| 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 |
| UL File No. | | E166051 |
| UL Category Control No. | | NRKH, NRKH7 |
| North America Certification | | UL listed, certified by UL for use in Canada |
| Degree of Protection | | UL Type 1 |