



Proximity switch, E57P Performance Short Body Serie, 1 NC, 3-wire, 10 – 48 V DC, M30 x 1.5 mm, S_n= 10 mm, Flush, NPN, Stainless steel, 2 m connection cable

Part no. E57PS-30SNC10-C2
Catalog No. 197851
Alternate Catalog No. E57PS-30SNC10-C2

Delivery program

| | | | |
|---------------------------|----------------|----|------------------------------------|
| Basic function | | | Inductive Sensors |
| Product range | | | E57P performance short body series |
| Connection | | | 3-wire |
| Design (outer dimensions) | | mm | M30 x 1.5 |
| Rated operational voltage | U _e | | 10 – 48 V DC |
| Rated switching distance | S _n | mm | 10 |
| Type of mounting | | | Flush |
| Switching type | | | NPN |
| For connection of: | | | 2 m connection cable |
| Contacts | | | |
| N/C = Normally closed | | | 1 NC |
| Material | | | Stainless steel |
| Degree of Protection | | | IP69 |

Technical data

General

| | | | |
|-----------------------------|--|---|----------------------------|
| Standards | | | IEC/EN 60947-5-2 |
| Ambient temperature | | | -40 - +70 |
| Mechanical shock resistance | | g | 30 Shock duration 11 ms |
| Degree of Protection | | | IP69 |
| Vibration | | | Amplitude 1 mm: 10 - 55 Hz |

Characteristics

| | | | |
|--|----------------|-----|---------------------------------|
| Rated switching distance | | | |
| Rated switching distance | S _n | mm | 10 |
| Repetition accuracy of S _n | | % | 1 |
| Temperature drift of S _n | | % | 10 |
| Switching hysteresis of S _n | | % | 20 |
| Range | | mm | 10 |
| Rated operational voltage | U _e | | 10 – 48 V DC |
| Maximum load current | I _e | mA | < 300 |
| 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 | 600 |
| 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/C = Normally closed | | | 1 NC |
| Style | | | |
| Design (outer dimensions) | | mm | M30 x 1.5 |
| For connection of: | | | 2 m connection cable |

| | | |
|----------|--|-----------------|
| Material | | Stainless steel |
|----------|--|-----------------|

Design verification as per IEC/EN 61439

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|--|----|-----|
| Technical data for design verification | | |
| Operating ambient temperature min. | °C | -40 |
| Operating ambient temperature max. | °C | 70 |

Technical data ETIM 7.0

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|---|----|------------------------|
| 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 | 67.7 |
| 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 | | 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, 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 | 600 |
| 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 | | NEMA 4, 4X, 6, 6P |

Additional product information (links)

IL053003EN Inductive sensors: E57 performance (short body), E57G General Purpose Series Inductive Proximity Sensors

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ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL053003EN2018_10.pdf