

Proximity switch, E57P Performance Short Body Serie, 1 NC, 3-wire, 10 – 48 V DC, M18 x 1 mm, Sn= 5 mm, Flush, NPN, Stainless steel, Plug-in connection M12 x 1



**Part no. E57PS-18SNC5-Q
197836**

| General specifications | | |
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| Product name | | Eaton Moeller® series E57PS Proximity switch |
| Part no. | | E57PS-18SNC5-Q |
| EAN | | 4015081949434 |
| Product Length/Depth | | 69.2 millimetre |
| Product height | | 18 millimetre |
| Product width | | 18 millimetre |
| Product weight | | 0.042 kilogram |
| Certifications | | UL Category Control No.: NRKH, NRKH7 UL File No.: E166051 IEC/EN 60947-5-2 UL Listed Certified by UL for use in Canada CSA-C22.2 No. 14 UL 508 |
| Product Tradename | | E57PS |
| Product Type | | Proximity switch |
| Product Sub Type | | None |
| Product Specification Details | | |
| Actuation type | | Metallic Target |
| Ambient operating temperature - max | | 70 °C |
| Ambient operating temperature - min | | -40 °C |
| Category (EN 954-1) | | B |
| Connection type | | 3-wire Plug-in connection M12 x 1 |
| Degree of protection | | NEMA 6P IP69 |
| Diameter sensor | | 18 mm |
| Electric connection type | | Connector M12 |
| Enclosure material | | Metal |
| Enclosure material finishing | | Other |
| Enclosure type | | Cylinder, screw-thread |
| Explosion safety category for dust | | None |
| Explosion safety category for gas | | None |
| Functions | | Short-circuit protection |
| Installation type | | Concise |
| Interface type | | None |
| LED indicator | | Status indication of Switching state: Yellow LED |
| Load current | | 1 - 300 mA (Ie) |
| Material | | Stainless steel |
| Mounting method | | Flush mounting |
| Number of contact energized outputs with signalling function | | 0 |
| Number of contacts (normally closed contacts) | | 1 |
| Number of outputs (protected contact energized) | | 0 |
| Number of outputs (protected semiconductor) | | 0 |
| Number of outputs (semiconductor with signaling function) | | 1 |
| Operational current (Ib) in the switched state at 24 V DC | | 10 A |
| Output current at protected output - max | | 0 mA |
| Product category | | E57P Performance series |
| Rated control supply voltage (Us) at AC, 50 Hz - max | | 0 V |

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| Rated control supply voltage (Us) at AC, 50 Hz - min | | 0 V |
| Rated control supply voltage (Us) at AC, 60 Hz - max | | 0 V |
| Rated control supply voltage (Us) at AC, 60 Hz - min | | 0 V |
| Rated control supply voltage (Us) at DC - max | | 48 V |
| Rated control supply voltage (Us) at DC - min | | 6 V |
| Rated switching distance (Sn) - max | | 5 mm |
| Repeatability | | 1 % |
| Safety performance level (EN ISO 13849-1) | | None |
| Sensor height | | 0 mm |
| Sensor length | | 69.2 mm |
| Shock resistance | | 30 g, Shock duration 11 ms, Half-Sinusoidal |
| SIL (IEC 61508) | | None |
| Supply voltage - max | | 48 V |
| Supply voltage - min | | 10 V |
| Switch function type | | Breaker contact |
| Switching frequency | | 1200 Hz |
| Switching hysteresis of Sn | | 20 % |
| Switching output type | | NPN |
| Temperature drift of sn | | 10 % |
| Type | | Inductive sensor |
| Voltage drop (Ud) | | 2.5 V |
| Voltage type | | DC |
| Width sensor | | 0 mm |

Technical data ETIM 9.0

Sensors (EG000026) / Inductive proximity switch (EC002714)

Electric engineering, automation, process control engineering / Sensor technology, safety-related sensor technology / Safety-related inductive sensor / Safety-related inductive proximity switch (ecl@ss13-27-27-41-01 [AKE630019])

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|--|----|------------------------|
| Width sensor | mm | 0 |
| Height of sensor | mm | 0 |
| Length of sensor | mm | 69.2 |
| Diameter sensor | mm | 18 |
| Mechanical mounting condition for sensor | | Concise |
| Switching distance | mm | 5 |
| Suitable for safety functions | | No |
| Type of switch function | | Breaker contact |
| Type of switching output | | NPN |
| 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 |
| SIL according to IEC 61508 | | None |
| Performance level according to EN ISO 13849-1 | | None |
| Max. output current at protected output | mA | 0 |
| Supply voltage | V | 10 - 48 |
| Rated control supply voltage AC 50 Hz | V | 0 - 0 |
| Rated control supply voltage AC 60 Hz | V | 0 - 0 |
| Rated control supply voltage DC | V | 6 - 48 |
| Voltage type | | DC |

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| Switching frequency | | Hz | |
| With monitoring function downstream switching devices | | | No |
| Housing material | | | Metal |
| Compression-resistant | | | No |
| Explosion safety category for gas | | | None |
| Explosion safety category for dust | | | None |
| Interference resistance to magnetic fields | | | |
| Degree of protection (NEMA) | | | 6P |