



Proximity switch, E57 Global Series, 1 NC, 2-wire, 10 - 30 V DC, M18 x 1 mm, S_n= 16 mm, Non-flush, NPN/PNP, Metal, Plug-in connection M12 x 1



Powering Business Worldwide™

Part no. E57-18GE16-D1DB
Catalog No. 135919
Alternate Catalog No. E57-18GE16-D1DB

Delivery program

| | | | |
|---------------------------|----------------|----|----------------------------|
| Basic function | | | Inductive Sensors |
| Product range | | | E57 Global Series |
| Connection | | | 2-wire |
| Design (outer dimensions) | | mm | M18 x 1 |
| Rated operational voltage | U _e | | 10 - 30 V DC |
| Rated switching distance | S _n | mm | 16 |
| Type of mounting | | | Non-flush |
| Switching type | | | NPN/PNP |
| For connection of: | | | Plug-in connection M12 x 1 |
| Contacts | | | |
| N/C = Normally closed | | | 1 NC |
| Material | | | Metal |
| Degree of Protection | | | IP67, IP69 |

Technical data

General

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

Characteristics

| | | | |
|--|----------------|-----|----------------------------|
| Rated switching distance | | | |
| Rated switching distance | S _n | mm | 16 |
| Repetition accuracy of S _n | | % | 2 |
| Temperature drift of S _n | | % | 10 |
| Switching hysteresis of S _n | | % | 15 |
| Rated operational voltage | U _e | | 10 - 30 V DC |
| Residual ripple of U _e | | % | 10 |
| 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 | 6 |
| Switching Frequency | | Hz | 500 |
| Min. load current | I _e | mA | 3 |
| Residual current through the load in the blocked state at 230 V AC and 24 V DC | I _r | mA | 0.8 |
| Switching state display | | LED | Red |
| Connection | | | 2-wire |
| Contacts | | | |
| N/C = Normally closed | | | 1 NC |
| Style | | | |
| Design (outer dimensions) | | mm | M18 x 1 |
| For connection of: | | | Plug-in connection M12 x 1 |
| Material | | | Metal |

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 | 79 |
| Diameter sensor | mm | 18 |
| Mechanical mounting condition for sensor | | Not flat |
| Switching distance | mm | 16 |
| Suitable for safety functions | | No |
| Type of switch function | | Breaker contact |
| Type of switching output | | Two-wire |
| 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 - 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 | 500 |
| 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: - |

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