# DATASHEET - E75-PPA025P-M12

## Proximity Sensor, HxWxD=50x18x50mm, Sn=3-25cm, 10-30VDC, PNP, M12

**Part no.** E75-PPA025P-M12
166999

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|---|---|
| **General specifications** | |
| Product name | Eaton Moeller® series E75 Proximity sensor |
| Part no. | E75-PPA025P-M12 |
| EAN | 4015081643004 |
| Product Length/Depth | 712.62 millimetre |
| Product height | 81.28 millimetre |
| Product width | 81.28 millimetre |
| Product weight | 0.45 kilogram |
| Certifications | UL 508<br>UL File No.: E166051<br>CSA-C22.2 No. 14<br>UL Category Control No.: NRKH, NRKH7<br>IEC/EN 60947-5-2<br>CE<br>Certified by UL for use in Canada<br>UL<br>CSA File No.: UL report applies to both US and Canada |
| Product Tradename | E75 |
| Product Type | Proximity sensor |
| Product Sub Type | None |
| **Product Specification Details** | |
| Adjustment type | Manual adjustment |
| Ambient operating temperature - max | 55 °C |
| Ambient operating temperature - min | -25 °C |
| Ambient storage temperature - max | 70 °C |
| Ambient storage temperature - min | -25 °C |
| Cable sheath material | Other |
| Connection type | Plug-in connection M12 x 1<br>4-wire |
| Degree of protection | IP65<br>NEMA 6 |
| Diameter sensor | 0 mm |
| Electric connection type | Connector M12 |
| Enclosure material | Plastic |
| Enclosure type | Cuboid |
| Explosion safety category for dust | None |
| Explosion safety category for gas | None |
| Fitted with: | Background suppression (Perfect Prox) |
| Functions | Reflected-light beam<br>Short-circuit protection |
| Interface type | Other |
| Laser protection class | None |
| LED indicator | Status indication of Switching state: Red LED<br>Status indication of Operating voltage: Green LED |
| Light dot size | 0 $mm^2$ |
| Light type | Infrared light |
| Load current | Max. 100 mA (Ie) |
| Number of contact energized outputs with signalling function | 0 |
| Number of outputs (protected contact energized) | 0 |
| Number of outputs (protected semiconductor) | 0 |
| Number of outputs (semiconductor with signaling function) | 1 |
| Operating distance - max | 250 mm |
| Operating distance - min | 30 mm |

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| Operating mode | | | Switching principle: Adjustable bright/dark switching |
| Operating temperature - max | | | 55 °C |
| Operating temperature - min | | | -25 °C |
| Operation agent-safety class | | | Safety class 2 |
| Optical surface material | | | Plastic |
| Output current (mA) - max | | | 100 mA |
| Output current at protected output - max | | | 0 mA |
| Product category | | | E75 IntelliView Series |
| Rated control supply voltage (Us) at AC, 50 Hz - max | | | 0 V |
| 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 | | | 30 V |
| Rated control supply voltage (Us) at DC - min | | | 10 V |
| Rated switching distance (Sn) | | | 250 mm |
| Reflector distance - min | | | 0 mm |
| Response time | | | 1 ms |
| Safety type (IEC 61496-1) | | | 1 |
| Sensing mode | | | Light-/dark switching |
| Sensor height | | | 50 mm |
| Sensor length | | | 50 mm |
| Shock resistance | | | 30 g, Mechanical, Shock duration 11 ms |
| Switch function type | | | Other |
| Switching distance - max | | | 250 mm |
| Switching frequency | | | 500 Hz |
| Switching output type | | | PNP |
| Switching voltage of OSSD at state "high" | | | 30 V |
| Transmission range of the safety field | | | 0 m |
| Type | | | Optical sensors |
| Vibration resistance | | | According to IEC/EN 60068-2-6<br>10 - 55 Hz, Amplitude 0.5 mm |
| Voltage rating - max | | | 30 V |
| Voltage type | | | DC |
| Wavelength of the sensor | | | 880 nm |
| Width sensor | | | 18 mm |
| Wire size | | | 0 |

## Technical data ETIM 9.0

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| Sensors (EG000026) / Diffuse reflective photoelectric sensor (EC001821) | | |
| Electric engineering, automation, process control engineering / Sensor technology, safety-related sensor technology / Optoelectronic sensor / Light scanner (ecl@ss13-27-27-09-03 [AKP252018]) | | |
| Operating distance | mm | 30 - 250 |
| Pre failure notice | | No |
| With time function | | No |
| Max. switching distance | mm | 250 |
| Max. output current | mA | 100 |
| With reflector | | No |
| Analogue output 0 V ... 10 V | | No |
| Analogue output 0 mA ... 20 mA | | No |
| Analogue output 4 mA ... 20 mA | | No |
| Analogue output -10 V ... +10 V | | No |
| With other analogue output | | No |
| Setting procedure | | Manual adjustment |
| With communication interface analogue | | No |
| With communication interface AS-Interface | | No |
| With communication interface CANOpen | | No |

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|---|---|---|
| With communication interface DeviceNet | | No |
| With communication interface Ethernet | | No |
| With communication interface INTERBUS | | No |
| With communication interface PROFIBUS | | No |
| With communication interface RS-232 | | No |
| With communication interface RS-422 | | No |
| With communication interface RS-485 | | No |
| With communication interface SSD | | No |
| With communication interface SSI | | No |
| 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 interface for safety communication | | Other |
| Type of electric connection | | Connector M12 |
| Type of switching output | | PNP |
| Type of switch function | | Other |
| Operation agent-safety class | | Safety class 2 |
| Explosion safety category for gas | | None |
| Explosion safety category for dust | | None |
| Construction type housing | | Cuboid |
| Width sensor | mm | 18 |
| Diameter sensor | mm | 0 |
| Height of sensor | mm | 50 |
| Length of sensor | mm | 50 |
| Sensing mode | | Light-/dark switching |
| Material of optical surface | | Plastic |
| Housing material | | Plastic |
| Max. output current at protected output | mA | 0 |
| Min. reflector distance | mm | 0 |
| Response time | ms | 1 |
| Transmission range of the safety field | m | 0 |
| Switching frequency | Hz | 500 |
| Type of safety according to IEC 61496-1 | | 1 |
| Switching voltage of OSSD at state "high" | V | 30 |
| Voltage type | | DC |
| With monitoring function downstream switching devices | | No |
| Laser protection class | | None |
| Wavelength of the sensor | nm | 880 |
| Type of light | | Infrared light |
| Light dot | $mm^2$ | 0 |
| AWG-number | | 0 |
| Material of cable sheath | | Other |
| With restart blockage | | No |
| Suitable for safety functions | | No |
| Degree of protection (IP) | | IP65 |
| Degree of protection (NEMA) | | 6 |
| Ambient temperature | °C | -25 - 55 |
| 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 | 10 - 30 |


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