



Eaton 14102RQD07

Eaton Moeller® series Insulated enclosure, Sn=4500mm, 4L, 10-30VDC, NPN, PNP, M18, metal, M12

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| PRODUCT NAME | Eaton Moeller® series E58 Diffuse reflective sensor |
| CATALOG NUMBER | 14102RQD07 |
| UPC | 782113846729 |
| PRODUCT LENGTH/DEPTH | 152.4 mm |
| PRODUCT HEIGHT | 44.45 mm |
| PRODUCT WIDTH | 152.4 mm |
| PRODUCT WEIGHT | 0.23 kg |
| CERTIFICATIONS | UL Recognized cUL Recognized UL Category Control No.: NRKH, NRKH7 UL 508 IEC/EN 60947-5-2 CSA File No.: 50513 CSA CSA-C22.2 No. 14 UL File No.: E117028 UL CE CSA Class No.: 3211-07 |



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| TYPE | Optical sensors |
| CONTACT RATING | 100 mA PNP, 250 mA NPN at 10-30 Vdc |
| FEATURES | Non-polarized |
| ELECTRIC CONNECTION TYPE | Plug-in connection |
| ENCLOSURE MATERIAL | Polyurethane foam (RIM) Plastic |
| ENCLOSURE TYPE | Cylinder, screw-thread |
| OPERATING MODE | Switching principle: Adjustable bright/dark switching |
| CONNECTION | M12 |
| CONTACT CONFIGURATION | NPN and PNP open collector |
| EXPLOSION SAFETY CATEGORY FOR DUST | None |
| SENSOR TYPE | Retroreflective |
| EXPLOSION SAFETY CATEGORY FOR GAS | None |
| FUNCTIONS | Short-circuit protection For combination with reflector Protection against polarity reversal Reflected-light beam |
| VOLTAGE TYPE | DC |
| CONNECTION TYPE | Plug-in connection M12 x 1 4-wire |
| INPUT VOLTAGE | 10-30 Vdc |
| LIGHT TYPE | Polarity free red light |
| DEGREE OF PROTECTION | IP67 NEMA Other |
| INTERFACE TYPE | Other |
| LED INDICATOR | Output ON Status indication of Switching state: Red LED |
| SWITCH FUNCTION TYPE | Programmable/configurable |
| LOAD CURRENT | Max. 250 mA (Ie, NPN, 120 > 50°C) Max. 100 mA (Ie, PNP) |
| LASER PROTECTION CLASS | None |
| SHOCK RESISTANCE | 100 g, Mechanical, Shock duration 3 ms |
| OPTICAL SURFACE MATERIAL | Plastic |

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| □□□□□□□□ | Eaton Specification Sheet - 14102RQD07 |
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| OUTPUT CURRENT (MA) - MAX | 100 mA |
| RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX | 30 V |
| RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN | 10 V |
| RATED SWITCHING DISTANCE (SN) | 4500 mm |
| SENSOR LENGTH | 76 mm |
| VOLTAGE RATING - MAX | 30 V |
| SAFETY TYPE (IEC 61496- 1) | 1 |
| SWITCHING FREQUENCY | 500 Hz |
| SENSING MODE | Light-/dark switching |
| SWITCHING OUTPUT TYPE | PNP |
| SENSOR MATERIAL | Insulated material |
| PRODUCT CATEGORY | Comet Series |
| NUMBER OF PINS | 4 |
| PROTECTION | Auto reset short circuit |
| RESPONSE TIME | 1 ms |
| MAXIMUM DC CURRENT | 100 mA PNP, 250 mA NPN |
| AMBIENT OPERATING TEMPERATURE - MAX | 70 °C |
| AMBIENT OPERATING TEMPERATURE - MIN | -40 °C |
| DIAMETER SENSOR | 18 mm |
| 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) | 2 |
| OPERATING TEMPERATURE - MAX | 158 °F |
| OPERATING TEMPERATURE - MIN | -40 °F |
| OPERATIONAL | 30 A |

