

# Specifications



## Eaton 135735

Eaton Moeller® series E65 Thru-beam photoelectric sensor, transmitter, Sn=15m, 4L, 10-30VDC, NPN, PNP, quad 40, insulated material, M12

### General specifications

|                             |                                                                                                                                                                                                                          |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PRODUCT NAME</b>         | Eaton Moeller® series E65 Thru-beam photoelectric sensor                                                                                                                                                                 |
| <b>CATALOG NUMBER</b>       | 135735                                                                                                                                                                                                                   |
| <b>MODEL CODE</b>           | E65-SMTS15-HAD                                                                                                                                                                                                           |
| <b>EAN</b>                  | 4015081325283                                                                                                                                                                                                            |
| <b>PRODUCT LENGTH/DEPTH</b> | 139.7 mm                                                                                                                                                                                                                 |
| <b>PRODUCT HEIGHT</b>       | 139.7 mm                                                                                                                                                                                                                 |
| <b>PRODUCT WIDTH</b>        | 38.1 mm                                                                                                                                                                                                                  |
| <b>PRODUCT WEIGHT</b>       | 0.11 kg                                                                                                                                                                                                                  |
| <b>CERTIFICATIONS</b>       | Certified by UL for use in Canada<br>CSA-C22.2 No. 14<br>UL File No.: E166051<br>UL<br>UL 508<br>UL Category Control No.: NRKH, NRKH7<br>CSA File No.: UL report applies to both US and Canada<br>CE<br>IEC/EN 60947-5-2 |
| <b>CATALOG NOTES</b>        | Yellow                                                                                                                                                                                                                   |



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## Product specifications

|                                           |                                                                                                                                                          |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>TYPE</b>                               | Optical sensors                                                                                                                                          |
| <b>DEVICE TYPE</b>                        | Transmitter                                                                                                                                              |
| <b>ELECTRIC CONNECTION TYPE</b>           | Connector M12                                                                                                                                            |
| <b>FITTED WITH:</b>                       | Transmitter (for combination with detector)                                                                                                              |
| <b>ENCLOSURE MATERIAL</b>                 | Plastic                                                                                                                                                  |
| <b>ENCLOSURE TYPE</b>                     | Cuboid                                                                                                                                                   |
| <b>EXPLOSION SAFETY CATEGORY FOR DUST</b> | None                                                                                                                                                     |
| <b>EXPLOSION SAFETY CATEGORY FOR GAS</b>  | None                                                                                                                                                     |
| <b>FUNCTIONS</b>                          | Thru-light beam<br>Protection against wire breakage<br>Short-circuit protection<br>For combination with detector<br>Protection against polarity reversal |
| <b>VOLTAGE TYPE</b>                       | DC                                                                                                                                                       |
| <b>WIRE SIZE</b>                          | 0                                                                                                                                                        |
| <b>CONNECTION TYPE</b>                    | Plug-in connection M12 x 1<br>4-wire                                                                                                                     |
| <b>CABLE SHEATH MATERIAL</b>              | Polyvinyl chloride (PVC)                                                                                                                                 |
| <b>LIGHT TYPE</b>                         | Polarity free red light                                                                                                                                  |
| <b>DEGREE OF PROTECTION</b>               | NEMA 4X<br>IP68                                                                                                                                          |
| <b>INTERFACE TYPE</b>                     | Other                                                                                                                                                    |
| <b>LED INDICATOR</b>                      | Status indication of<br>Operating voltage: Green LED<br>Status indication of<br>Switching state: Red LED                                                 |
| <b>SWITCH FUNCTION TYPE</b>               | Other                                                                                                                                                    |
| <b>LOAD CURRENT</b>                       | Max. 100 mA (Ie)                                                                                                                                         |
| <b>LASER PROTECTION CLASS</b>             | None                                                                                                                                                     |
| <b>OPERATION AGENT-SAFETY CLASS</b>       | Safety class 2                                                                                                                                           |
| <b>SHOCK RESISTANCE</b>                   | 50 g, Mechanical, Shock duration 10 ms                                                                                                                   |
| <b>OPTICAL SURFACE MATERIAL</b>           | Plastic                                                                                                                                                  |
| <b>RATED CONTROL SUPPLY</b>               | 30 V                                                                                                                                                     |

## Resources

|                            |                                                                                                                                                                                                                             |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DECLARATIONS OF CONFORMITY | <a href="#">eaton-proximity-sensor-declaration-of-conformity-eu251572en.pdf</a>                                                                                                                                             |
| DRAWINGS                   | <a href="#">eaton-proximity-switches-e65-diffuse-reflective-sensor-dimensions.eps</a><br><br><a href="#">eaton-proximity-switches-dimensions-012.eps</a><br><br><a href="#">eaton-proximity-switches-e65-3d-drawing.eps</a> |
| INSTALLATION INSTRUCTIONS  | <a href="#">IL05305004Z</a>                                                                                                                                                                                                 |
| MCAD MODEL                 | <a href="#">eaton-photoelectric-sensors-mcad-drawings-90-28290-004.dwg</a><br><br><a href="#">DA-CS-90_28290_004</a>                                                                                                        |

|                                                                     |                       |
|---------------------------------------------------------------------|-----------------------|
| <b>VOLTAGE (US) AT DC - MAX</b>                                     |                       |
| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN</b>                | 10 V                  |
| <b>RATED SWITCHING DISTANCE (SN)</b>                                | 15000 mm              |
| <b>SENSOR HEIGHT</b>                                                | 55 mm                 |
| <b>SENSOR LENGTH</b>                                                | 41 mm                 |
| <b>SWITCHING DISTANCE - MAX</b>                                     | 15000 mm              |
| <b>VOLTAGE RATING - MAX</b>                                         | 30 V                  |
| <b>SAFETY TYPE (IEC 61496-1)</b>                                    | 1                     |
| <b>SENSING MODE</b>                                                 | Light-/dark switching |
| <b>SWITCHING OUTPUT TYPE</b>                                        | PNP                   |
| <b>SENSOR MATERIAL</b>                                              | Insulated material    |
| <b>WAVELENGTH OF THE SENSOR</b>                                     | 660 nm                |
| <b>WIDTH SENSOR</b>                                                 | 33 mm                 |
| <b>PRODUCT CATEGORY</b>                                             | E65 SM Series         |
| <b>RESPONSE TIME</b>                                                | 1 ms                  |
| <b>AMBIENT OPERATING TEMPERATURE - MAX</b>                          | 55 °C                 |
| <b>AMBIENT OPERATING TEMPERATURE - MIN</b>                          | -25 °C                |
| <b>AMBIENT STORAGE TEMPERATURE - MAX</b>                            | 70 °C                 |
| <b>AMBIENT STORAGE TEMPERATURE - MIN</b>                            | -25 °C                |
| <b>NUMBER OF CONTACT ENERGIZED OUTPUTS WITH SIGNALLING FUNCTION</b> | 0                     |
| <b>NUMBER OF OUTPUTS (PROTECTED CONTACT ENERGIZED)</b>              | 0                     |
| <b>NUMBER OF OUTPUTS (PROTECTED SEMICONDUCTOR)</b>                  | 0                     |
| <b>NUMBER OF OUTPUTS (SEMICONDUCTOR WITH SIGNALING FUNCTION)</b>    | 0                     |
| <b>OPERATING TEMPERATURE - MAX</b>                                  | 55 °C                 |
| <b>OPERATING TEMPERATURE - MIN</b>                                  | -25 °C                |
| <b>OPERATIONAL CURRENT</b>                                          | 40 A                  |

(IB) IN THE SWITCHED  
STATE AT 24 V DC

ADJUSTMENT TYPE

Other

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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