

Select your language

- German
- English
- French
- Dutch
- Italian
- Polish
- Czech
- Russian
- Norwegian Bokmål

Worldwide English



Powering Business Worldwide

E76-CLRMKP-M12 - Optical sensors, Reflected-light beam, Color sensing, 3 NO PNP outputs, 8 conductor, 10 - 30 V DC, Sn = 450 mm, Plug-in connection M12 x 1



166927 E76-CLRMKP-M12

[Overview](#) [Specifications](#) [Resources](#)



- [Delivery program](#)
- [Technical data](#)
 - Design verification as per IEC/EN 61439
- [Technical data ETIM 7.0](#)
- [Approvals](#)
- [Dimensions](#)

166927 E76-CLRMKP-M12

Optical sensors, Reflected-light beam, Color sensing, 3 NO PNP outputs, 8 conductor, 10 - 30 V DC, Sn = 450 mm, Plug-in connection M12 x 1

Alternate Catalog No.

E76-CLRMKP-M12

EL-Nummer (Norway)

4315407

IntelliView Serie, product features: optical sensor, no entry, programming for the detection of 3 different colors, 5-45 mm sensing range, rectangular plastic housing, integrated display, status LED, two programming buttons

Delivery program

Basic function
Optical sensors
Product range
E76 IntelliView Serie
For connection of:
Plug-in connection M12 x 1
Design (outer dimensions)
Rectangular (50 x 50 x 25) mm
Rated operational voltage [U_e]
10 - 30 V DC
Rated switching distance [S_n]
450 mm
Description
Color sensing
3 NO PNP outputs
Connection
8 conductor
Function
Reflected-light beam
Type of light
Infra-red
Switching type
PNP

Information relevant for export to North America

Product Standards UL 508; CSA-C22.2 No. 14; IEC60947-5-2; CE marking

UL File No. E166051

UL Category Control No. NRK1, NRK1-7

CSA File No. UL report applies to both Canada and US

North America Certification UL listed, certified by UL for use in Canada

Max. Voltage Rating 30 V DC

Degree of Protection IEC: IP67; UL/CSA Type: -

Technical data

General
Standards
IEC/EN 60947-5-2
Ambient temperature
-10 - +55
Operation [9]
-10 - +55 °C

Storage [9]
 -20 - +70 °C
 Mechanical shock resistance
 30
 Shock duration 11 ms g
 Degree of Protection
 IP67
 Vibration
 Amplitude 0.5 mm: 10 - 55 Hz.
 IEC/EN 60068-2-6
 Characteristics
 Rated switching distanceRated switching distance [S_n]
 450 mm
 Rated operational voltage [U_o]
 10 - 30 V DC
 Switching Frequency
 770 Hz
 Response time
 0.65 ms
 Switching state display
 Yellow LED
 Protective functions
 Short-circuit protective device
 Connection
 8 conductor
 StyleDesign (outer dimensions)
 Rectangular (50 x 50 x 25) mm
 For connection of:
 Plug-in connection M12 x 1

Design verification as per IEC/EN 61439

Operating ambient temperature min.
 -10 °C
 Operating ambient temperature max.
 +55 °C

Technical data ETIM 7.0

Sensors (EG000026) / Luminescence sensor (EC001822)
 Electric engineering, automation, process control engineering / Binary sensor technology, safety-related sensor technology / Optoelectronic sensor /
 Luminescence scanner (ecl@ss10.0.1-27-09-08 [AKP257015])
 Lamp type
 Other
 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
 Type of electric connection
 Connector M12
 Number of semiconductor outputs with signalling function
 3
 Number of contact energized outputs with signalling function
 0
 Type of switching output
 PNP
 Type of switch function
 Normally open contact (NO)
 With blanking function
 No
 Operation agent-safety class
 Safety class 2
 Width sensor
 25 mm
 Height of sensor
 50 mm
 Length of sensor
 50 mm
 Diameter sensor
 0 mm
 Setting procedure
 Other
 Type of frequency band of the receiving spectrum
 Other
 Construction type housing
 Cuboid
 Laser protection class
 Other
 No load current
 0 mA
 Type of light
 White light
 Light dot

0 mm²
With fibre optics connection
No
Max. output current
100 mA
Nominal operating distance
45 mm
Switching frequency
770 Hz
Degree of protection (IP)
IP67
Degree of protection (NEMA)
4X
Voltage type
DC
Ambient temperature
10 - 55 °C
With exchange lens
No
Material of optical surface
Glass
Material housing
Plastic
Material of cable sheath
Other
Material fibre optics core
Other
With time function
No
AWG-number
0

Approvals

Product Standards
UL 508; CSA-C22.2 No. 14; IEC60947-5-2; CE marking
UL File No.
E166051
UL Category Control No.
NRK4, NRK47
CSA File No.
UL report applies to both Canada and US
North America Certification
UL listed, certified by UL for use in Canada
Max. Voltage Rating
30 V DC
Degree of Protection
IEC: IP67; UL/CSA Type: -

Dimensions

☐ Connector can rotate 90 or 180 degrees to accept different sensor mounting orientations.

CAD data

- [Product-specific CAD data](#)
(Web)
- [3D Preview](#)
(Web)
- [DA-CD-90_28293_004](#)
CAD data
DWG files
(Web)
- [DA-CS-90_28293_004](#)
CAD data
Step files
(Web)

Product photo



[Photo](#)
Product photo
Photo

3D drawing

- ☐ [1360DRAW-178](#)
3D drawing
Line drawing

Dimensions single product

- [1360DIM-327](#)
Dimensions single product
Line drawing
 - ☐ Connector can rotate 90 or 180 degrees to accept different sensor mounting orientations.

Instruction Leaflet

- [IL05305009Z](#)
Instruction Leaflet
(PDF, International)

Declaration of Conformity

- [DA-DC-00002590](#)
Declaration of Conformity
(PDF)

Download-Center

- [Download-Center \(this item\)](#)
Eaton EMEA Download-Center - download data for this item
 - [Download-Center](#)
Eaton EMEA Download-Center



Generate data sheet in PDF format



Generate data sheet in Excel format



Write a comment

[Imprint](#) [Privacy Policy](#) [Legal](#) [Disclaimer](#) [Terms and Conditions](#)

© 2020 by Eaton Industries GmbH

