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Worldwide English



E71-COP-M8 - Proximity switch, optical, long range 80cm, 4L, 10-30VDC, PNP, M8



100428 E71-COP-M8

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## 100428 E71-COP-M8

Proximity switch, optical, long range 80cm, 4L, 10-30VDC, PNP, M8

Alternate Catalog No.

E71-COP-M8

EL-Nummer (Norway)

4315314

E71 NanoView series, product features: optical miniature sensor, very minimal size in cube form, IP66\_x, status LED for Power und Output, light and dark switching, visible red LED beam enables simple commissioning and adjustment, clear Object Detector enables the detection of plastic bottles, glass and films

### Delivery program

Basic function

Optical sensors

Product range

E71 NanoView Series

For connection of:

Plug-in connection M8 x 1

Design (outer dimensions)

Rectangular (20 x 12 x 32) mm

Rated operational voltage [ $U_a$ ]

10 - 30 V DC

Rated switching distance [ $S_n$ ]

800 mm

Description

for combination with reflector

Detection of transparent objects

Connection

4-wire

Function

Reflex photoelectric sensor

Type of light

Visible red

Material

Insulated material

Switching type

PNP

Switching principle

Adjustable bright/dark switching

**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. NRKH, NRKH7

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: IP66; UL/CSA Type: -

## Technical data

General

Ambient temperature

-25 - +55

Operation [9]

-25 - +55 °C

Storage [9]

-25 - +70 °C

Mechanical shock resistance

30

Shock duration 11 ms g

Degree of Protection

IP66

Vibration

Amplitude 0.5 mm 10 - 55 Hz.

IEC/EN 60068-2-6

Characteristics

Rated switching distance Rated switching distance [ $S_n$ ]

800 mm

Rated operational voltage [ $U_a$ ]

10 - 30 V DC

Maximum load current [ $I_e$ ]

< 100 mA

Switching Frequency

500 Hz

Response time

1 ms

Switching state display

Yellow LED

Operating voltage display

Green LED

Protective functions

Short-circuit protective device

Protection against polarity reversal

Connection

4-wire

Style Design (outer dimensions)

Rectangular (20 x 12 x 32) mm

For connection of:

Plug-in connection M8 x 1

Material

Insulated material

## Design verification as per IEC/EN 61439

Operating ambient temperature min.

-25 °C

Operating ambient temperature max.

+55 °C

## Technical data ETIM 7.0

Sensors (EG000026) / Reflection light barrier (EC002717)

Electric engineering, automation, process control engineering / Binary sensor technology, safety-related sensor

Pre failure notice

No

With time function

No

Rated switching distance

800 mm

Max. switching distance

800 mm

Max. output current

100 mA

Reflector included

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

Other

With communication interface analogue

No

With communication interface AS-Interface

No

With communication interface CANOpen

No

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

Type of electric connection

Connector M8

Type of switching output

PNP

Type of switch function

Other

Operation agent-safety class

Explosion safety category for gas

None

Explosion safety category for dust

None

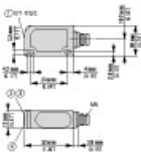
Construction type housing  
 Cuboid  
 Width sensor  
 12 mm  
 Diameter sensor  
 0 mm  
 Height of sensor  
 32 mm  
 Length of sensor  
 20 mm  
 Sensing mode  
 Light-/dark switching  
 Material of optical surface  
 Plastic  
 Material housing  
 Plastic  
 Max. output current at protected output  
 0 mA  
 Min. reflector distance  
 0 mm  
 Ambient temperature  
 25 - 55 °C  
 Time of reaction  
 1 ms  
 Transmission range of the safety field  
 0 m  
 Switching frequency  
 500 Hz  
 Type of safety acc. IEC 61496-1  
 "Switching voltage of OSSD at state ""high""  
 30 V  
 Rated control supply voltage Us at AC 50Hz  
 0 - 0 V  
 Rated control supply voltage Us at AC 60Hz  
 0 - 0 V  
 Rated control supply voltage Us at DC  
 10 - 30 V  
 Voltage type  
 DC  
 With monitoring function downstream switching devices  
 No  
 Laser protection class  
 None  
 Wavelength of the sensor  
 660 nm  
 Type of light  
 Polarity free red light  
 Light dot  
 0 mm²  
 With restart blockage  
 No  
 Suitable for safety functions  
 No  
 Degree of protection (IP)  
 IP66  
 Degree of protection (NEMA)  
 Other

## Approvals

Product Standards  
 UL 508; CSA-C22.2 No. 14; IEC60947-5-2; CE marking  
 UL File No.  
 E166051  
 UL Category Control No.  
 NRKH, NRKH7  
 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: IP66; UL/CSA Type: -

Dimensions



- ☐ Sensitivity potentiometer
- ☐ Stability LED
- ☐ Power On LED
- ☐ Output LED

CAD data

- [Product-specific CAD data](#)  
(Web)
- [3D Preview](#)  
(Web)

DWG files

- [DA-CD-90\\_28292\\_002](#)  
File  
(Web)

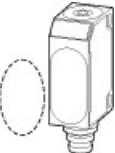
Step files

- [DA-CS-90\\_28292\\_002](#)  
File  
(Web)

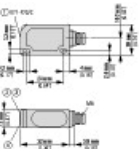
Product photo

-   
[1360PIC-219](#)  
Photo

3D drawing

-   
[1360DRW-236](#)  
Line drawing

Dimensions single product

-   
[1360DIM-353](#)  
Line drawing
- ☐ Sensitivity potentiometer
- ☐ Stability LED

- ☐ Power On LED
- ☐ Output LED

## Instruction Leaflet

- [IL05305006Z](#)  
Asset  
(PDF, Int)

## Declaration of Conformity

### EU

- [Photoelectric Sensors, NanoView & InetlilView Series \(DA-DC-00002590\)](#)  
Asset  
(PDF)

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