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Worldwide English



E71-PRP-M8 - Proximity switch, optical, long range 2.5m, 4L, 10-30VDC, PNP, M8



100526 E71-PRP-M8

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100526 E71-PRP-M8

Proximity switch, optical, long range 2.5m, 4L, 10-30VDC, PNP, M8

Alternate Catalog No.

E71-PRP-M8

EL-Nummer (Norway)

4315317

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, polarized Reflex operates with polarized light

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]

2500 mm

Description

polarized light

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]

2500 mm

Rated operational voltage [U_e]

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 technology / Optoelectronic sensor / Reflection light barrier (ecl@ss10.0.1-27-27-09-02 [AKP251013])

Pre failure notice
 No
 With time function
 No
 Rated switching distance
 2500 mm
 Max. switching distance
 2500 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 M12
 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

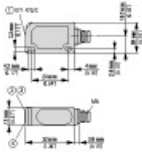
Cuboid
 Width sensor
 12 mm
 Diameter sensor
 0 mm
 Height of sensor
 32 mm
 Length of sensor
 20 mm
 Sensing mode
 Light-/dark switching
 Material of optical surface
 Plastic
 Material housing
 Plastic
 Max. output current at protected output
 0 mA
 Min. reflector distance
 0 mm
 Ambient temperature
 0 - 0 °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
 Polarized 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)

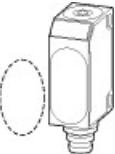
Step files

- [DA-CS-90_28292_002](#)
File
(Web)

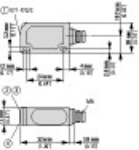
Product photo

- 
[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 & InetliView Series \(DA-DC-00002590\)](#)
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(PDF)

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