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Worldwide English



Powering Business Worldwide

E67-LRDP100-HDD - Proximity switch, optical, long range 100cm, 18-30VDC, NPN, PNP, dark, micro



100547 E67-LRDP100-HDD

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100547 E67-LRDP100-HDD

Proximity switch, optical, long range 100cm, 18-30VDC, NPN, PNP, dark, micro

Alternate Catalog No.

E67-LRDP100-HDD

EL-Nummer (Norway)

4315320

E67 wide range Perfect Prox Sensor series, product features: background suppression, extended sensing range up to 240 cm, status LEDs for Power and Output, horizontal and vertical flush mounting, easy set-up, switching of objects of different colors reflection and contrast.

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

Basic function

Optical sensors

Product range

E67 Long Range Series

For connection of:

Plug-in connection M12 x 1

Design (outer dimensions)

Rectangular (166 x 59 x 43) mm

Rated operational voltage [U_b]

18 – 30 V DC

Rated switching distance [S_n]

1000 mm

Description

with background suppression (Perfect Prox)

Connection

4-wire

Function

Reflected-light beam

Type of light

Infra-red

Switching type

NPN

PNP

Switching principle
Dark switching

Technical data

General

Ambient temperature

-35 - +55

Operation [9]

-35 - +55 °C

Storage [9]

-40 - +70 °C

Mechanical shock resistance

30

Shock duration 6 ms g

Degree of Protection

IP67

Vibration

10 g (10 Hz - 2 kHz)

Characteristics

Rated switching distance Rated switching distance [S_n]

1000 mm

Rated operational voltage [U_a]

18 – 30 V DC

Maximum load current [I_e]

< 100 mA

Response time

15 ms

Switching state display

Red LED

Operating voltage display

Green LED

Connection

4-wire

Style Design (outer dimensions)

Rectangular (166 x 59 x 43) mm

For connection of:

Plug-in connection M12 x 1

Design verification as per IEC/EN 61439

Operating ambient temperature min.

-35 °C

Operating ambient temperature max.

+55 °C

Technical data ETIM 7.0

Sensors (EG000026) / Light scanner with background masking (EC002719)

Electric engineering, automation, process control engineering / Binary sensor technology, safety-related sensor technology / Optoelectronic sensor / Light scanner w. background masking (ecl@ss10.0.1-27-27-09-04 [AKP253013])

Adjustment range

0 - 1000 mm

Operating distance

0 - 0 mm

Triangulation

Background fade-out

Pre failure notice

No

With time function

No

Rated switching distance

1000 mm

Max. switching distance

1300 mm

Max. output current

100 mA

Reflector included

No

Analogue output 0 V ... 10 V

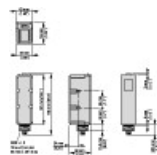
No
Analogue output 0 mA ... 20 mA
No
Analogue output 4 mA ... 20 mA
No
Analogue output -10 V ... +10 V
No
With other analogue output
No
Setting procedure
Other
With communication interface analogue
No
With communication interface AS-Interface
No
With communication interface CANOpen
No
With communication 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
2
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
Other
Type of electric connection
Other
Type of switching output
PNP/NPN
Type of switch function
Other
Operation agent-safety class
Safety class 2
Explosion safety category for gas
None
Explosion safety category for dust
None
Construction type housing
Cuboid
Width sensor
43 mm
Diameter sensor
0 mm
Height of sensor
59 mm
Length of sensor
166 mm
Sensing mode
Dark switching

Material of optical surface
 Plastic
 Material housing
 Plastic
 Max. output current at protected output
 0 mA
 Mn. reflector distance
 0 mm
 Ambient temperature
 -35 - 55 °C
 Time of reaction
 15 ms
 Transmission range of the safety field
 0 m
 Switching frequency
 0 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
 18 - 30 V
 Voltage type
 DC
 With monitoring function downstream switching devices
 No
 Laser protection class
 None
 Wavelength of the sensor
 0 nm
 Type of light
 Infrared light
 Light dot
 0 mm²
 AWG-number
 0
 Material of cable sheath
 Other
 With restart blockage
 No
 Suitable for safety functions
 No
 Degree of protection (IP)
 IP67

Approvals

Product Standards
 CE marking
 Max. Voltage Rating
 30 V DC

Dimensions



CAD data

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

DWG files

- [DA-CD-90_28291_001](#)
File
(Web)

Step files

- [DA-CS-90_28291_001](#)
File
(Web)

Product photo

- 
[1360PIC-275](#)
Photo

3D drawing

- 
[1360DRW-176](#)
Line drawing

Dimensions single product

- 
[1360DIM-325](#)
Line drawing

Instruction Leaflet

- [IL05305005Z](#)
Asset
(PDF, Int)

Declaration of Conformity


EU

- [E67 Long Range Perfect PRox Series Sensors \(DA-DC-00002429\)](#)
Asset
(PDF)

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