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Worldwide English



Powering Business Worldwide

E65-SMTD15-HDD - Thru-beam photoelectric sensor, receiver, Sn=15m, 4L, 10-30VDC, dark, NPN, PNP, quad 40, insulated material



135731 E65-SMTD15-HDD

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135731 E65-SMTD15-HDD

Thru-beam photoelectric sensor, receiver, Sn=15m, 4L, 10-30VDC, dark, NPN, PNP, quad 40, insulated material

Alternate Catalog No.

E65-SMTD15-HDD

EL-Nummer (Norway)

4315354

E65-SMseries, product features: bright indicators for voltage, output and TargetLock™, targetLock™ simplifies setup and ensures a high operational reliability. Perfect Prox® models detect targets with different colors at the same range while ignoring background objects. DC models have access to

- [Delivery program](#)
- [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

E65 SM Series

For connection of:

Plug-in connection M12 x 1

Design (outer dimensions)

33 x 41 x 37 mm

Rated operational voltage [U_e]

10 - 30 V DC

Rated switching distance [S_n]

15000 mm

Description

Detector (for combination with source)

Connection

4-wire

Function

Thru-beam photoelectric sensor

Material

Insulated material

Switching type

NPN

PNP

Switching principle

Dark switching

Notes

for combination with transmitter

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

CSA Class No. –

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

Max. Voltage Rating 30 V DC

Degree of Protection IEC: IP68, IP69K; UL/CSA Type: 1, 3, 4, 4x, 6, 6P, 12, 13

Technical data

General

Standards

IEC/EN 60947-5-2

Ambient temperature

-25 - +55

Operation [9]

-25 - +55 °C

Storage [9]

-25 - +70 °C

Mechanical shock resistance

50

Shock duration 10 ms g

Degree of Protection

IP68, IP69

Characteristics

Rated switching distance Rated switching distance [S_n]

15000 mm

Range

15 mm

Rated operational voltage [U_e]

10 - 30 V DC

Maximum load current [I_e]

< 100 mA

Operating current in the switched state at 24 V DC [I_b]

20 mA

Response time

1 ms

Switching state display

Red LED

Operating voltage display

Green LED

Boundary gain

Yellow

Protective functions

Short-circuit protective device

Protection against polarity reversal

Protection against wire breakage

Connection

4-wire

Style Design (outer dimensions)

33 x 41 x 37 mm

For connection of:

Plug-in connection M12 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) / One-way light barrier (EC002716)

Electric engineering, automation, process control engineering / Binary sensor technology, safety-related sensor technology / Optoelectronic sensor / One-way light barrier (ecl@ss10.0.1-27-27-09-01 [AKP250013])

Scope of delivery of the one-way system

Receiver

Opening angle

0 °

Pre failure notice

No

With time function

No

Rated switching distance

15000 mm

Max. switching distance

15000 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

Connector M12
 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
 33 mm
 Diameter sensor
 0 mm
 Height of sensor
 55 mm
 Length of sensor
 41 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
 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 U_s at AC 50Hz
 0 - 0 V
 Rated control supply voltage U_s at AC 60Hz
 0 - 0 V
 Rated control supply voltage U_s 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
 AWG-number
 0
 Material of cable sheath
 Other
 With restart blockage
 No
 Suitable for safety functions
 No
 Degree of protection (IP)

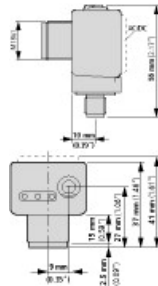
IP67
Degree of protection (NEMA)
4X

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
CSA Class No.

—
North America Certification
UL listed, certified by UL for use in Canada
Max. Voltage Rating
30 V DC
Degree of Protection
IEC: IP68, IP69K; UL/CSA Type: 1, 3, 4, 4x, 6, 6P, 12, 13

Dimensions



CAD data

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

DWG files

- [DA-CD-90_28290_012](#)
File
(Web)

Step files

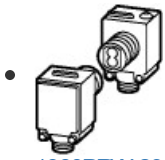
- [DA-CS-90_28290_012](#)
File
(Web)

Product photo



1360PIC-98
Photo

3D drawing



1360DRW-29

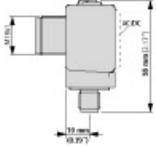
Line drawing

Dimensions single product

- □

1360DIM-154

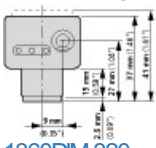
Line drawing



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1360DIM-319

Line drawing



-

1360DIM-320

Line drawing

Instruction Leaflet

- [Optical sensors: SM Series \(IL05305004Z\)](#)
Asset
(PDF, multilingual)

Declaration of Conformity

EU

- [Photoelectric Sensors, DC - E65 SM Series \(DA-DC-00002426\)](#)
Asset
(PDF)

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