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Powering Business Worldwide

E58-30TD250-HLP - Thru-beam photoelectric sensor, receiver, Sn=250m, 4L, 10-30VDC, light, NPN, PNP, M30, metal



135695 E58-30TD250-HLP

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135695 E58-30TD250-HLP

Thru-beam photoelectric sensor, receiver, Sn=250m, 4L, 10-30VDC, light, **NPN**, **PNP**, M30, metal

Alternate Catalog No.

E58-30TD250-HLP

EL-Nummer (Norway)

0004315350

E58 series, product features: sensors with a diameter of 18 mm or 30 mm. Highly refined optics for long sensing ranges and to see through high levels of contamination – unmatched optical performance. Resistant to many chemicals used in the automotive, food processing and forest products industries. Suitable for high temperature, high pressure washdown (82 bar). mechanical Viton gaskets are resistant to extreme temperature variations. visible sensing beam on all models lets you see where the beam is aimed for quick flush mounting and alignment. The function display is the brightest available and is visible from any angle and in any lighting condition. The industry's only background suppression sensors with a 2-wire circuit design. 4-wire DC sensors feature an **PNP** and a **NPN** output

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Delivery program

Basic function

Optical sensors

Product range

E58 Harsh Duty Series

For connection of:

Plug-in connection M12 x 1

Design (outer dimensions)

M30 x 1.5 mm

Rated operational voltage [U_a]

10 - 30 V DC

Rated switching distance [S_n]

250000 mm

Description

Detector (for combination with source)

Connection

4-wire

Function

Thru-beam photoelectric sensor

Material

Stainless steel

Switching type

NPN

PNP

Switching principle

Light 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

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, 2, 3, 3R, 3S, 4, 4x, 6, 6P, 12, 12K, 13

Technical data

General

Standards

IEC/EN 60947-5-2

Ambient temperature

-40 - +55

Mechanical shock resistance

100

Shock duration 3 ms g

Degree of Protection

IP69

Characteristics

Rated switching distance Rated switching distance [S_n]

250000 mm

Range

250 mm

Rated operational voltage [U_e]

10 - 30 V DC

Maximum load current [I_e]

< 100 mA

Response time

1.6 ms

Switching state display

Red LED

Protective functions

Short-circuit protective device

Protection against polarity reversal

Protection against wire breakage

Connection

4-wire

Style Design (outer dimensions)

M30 x 1.5 mm

For connection of:

Plug-in connection M12 x 1

Material

Stainless steel

Design verification as per IEC/EN 61439

Operating ambient temperature min.

-40 °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
 250000 mm
 Max. switching distance
 0 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
 Cylinder, screw-thread
 Width sensor

0 mm
Diameter sensor
30 mm
Height of sensor
0 mm
Length of sensor
111 mm
Sensing mode
Light switching
Material of optical surface
Glass
Material housing
Metal
Max. output current at protected output
0 mA
Mn. reflector distance
0 mm
Ambient temperature
40 - 55 °C
Time of reaction
1 ms
Transmission range of the safety field
0 m
Switching frequency
312 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
0 nm
Type of light
Other
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.

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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, 2, 3, 3R, 3S, 4, 4x, 6, 6P, 12, 12K, 13

Dimensions



□ M12 plug-in connection: 178 ±25

Product photo



1360PIC-92

Photo

3D drawing



1360DRW-26

Line drawing

Dimensions single product



1360DIM-315

Line drawing

□ M12 plug-in connection: 178 ±25, Connection cable: 2m

Instruction Leaflet

- [Optical sensors: E58 Series \(IL05305003Z\)](#)

Asset

(PDF, multilingual)

Declaration of Conformity

EU

- [Photoelectric Sensors, E58 Series \(DC\) \(DA-DC-00002425\)](#)

Asset

(PDF)

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