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E58-30TS250-HAP - Thru-beam photoelectric sensor, transmitter, Sn=250m, 4L, 10-30VDC, NPN, PNP, M30, metal, M12



135697 E58-30TS250-HAP

[Overview](#) [Specifications](#) [Resources](#)



135697 E58-30TS250-HAP

Thru-beam photoelectric sensor, transmitter, Sn=250m, 4L, 10-30VDC, NPN, PNP, M30, metal, M12
Alternate Catalog No. E58-30TS250-HAP
EL-Nummer (Norway) 4315351

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

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

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_b]
10 - 30 V DC
Rated switching distance [S_n]
250000 mm
Description
Source (for combination with detector)
Connection
4-wire
Function
Thru-beam photoelectric sensor
Type of light
Visible red
Material
Stainless steel
Switching type
NPN
PNP

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

Operating voltage 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

Transmitter

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
0
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-/dark switching
Material of optical surface
Glass
Material housing
Metal
Max. output current at protected output
0 mA
Min. reflector distance
0 mm
Ambient temperature
40 - 55 °C
Time of reaction
0 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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