

WL4SLG-3P4132H







Photoelectric sensors W4SLG-3H, Photoelectric retro-reflective sensor, autocollimation

Model Name > WL4SLG-3P4132H

Part No. > 1058282



At a glance

- · Precise laser light spot, laser class 1
- Stainless steel housing with hygienic design
- Latest SICK proprietary ASIC and laser technologies for outstanding background suppression and ambient light immunity
- Teach-in pushbutton can be switched between detection of transparent and tiny non-transparent objects
- . ECOLAB certified, tested to IP 66, IP 67, IP 68 and IP 69K enclosure rating
- · IO-Link (optional)

Your benefits

- · Precise laser light spot for highly accurate switching
- · Washable stainless steel housing reduces bacterial contamination
- Innovative hygienic design with sealed connections and unique patented membrane teach-in pushbutton
- One sensor for detecting both transparent objects and tiny non-transparent objects. This reduces the variety of sensors and saves on storage costs
- · Autocollimation permits detection through very small drilled holes
- IO-Link facilitates, for example, effortless initial system performance diagnostics and uses additional sensor functions to reduce complex control programming



Illustration may differ

CEECSLAB (I)

Features

Sensor/detection principle: Photoelectric retro-reflective sensor, autocollimation

Dimensions (W x H x D): 15.3 mm x 63.2 mm x 22.2 mm

Housing design: Hygiene 1)
Housing design (light emission): Rectangular

Mounting hole: Rectangula M3

Sensing range max.:: 0 m ... 4.5 m 2) 3)
Sensing range:: 0 m ... 2 m 4) 5)

Type of light: Visible red light

Light source: Laser 6)

Laser class: 1, 1 (EN60825-1:2008-05 & IEC 60825-1:2007-03/CDRH 21 CFR

1040.10 & 1040.11)

Wave length: 650 nm

Adjustment: Single teach-in button Light spot size (distance): Ø 1 mm (500 mm)

¹⁾ The essential difference between a standard/washdown product and a hygiene product is that where the process and contact with the medium (activity in the vicinity of the food) are concerned, the product is designed in accordance with the latest standards and hygiene design guidelines, and materials are selected accordingly

REF-AC1000 We recommend using reflective tape REF-AC1000 or reflectors based on this reflective tape, like P41F, PLV14-A, PLH25-M12 or PLH25-D12, to ensure reliable operation. Reflectors with larger-scaled triple structures should only be used after application clarification 6) Average service life 50,000 h at T = +25 °C

Mechanics/electronics

10 V DC ... 30 V DC ¹⁾
< 5 Vpp ²⁾ Supply voltage:

Ripple: ≤ 30 mA 3) Power consumption: PNP 4) Output type:

Complementary Output function: Light/dark switching ⁵⁾ Switching mode:

≤ 100 mA ≤ 0.5 ms⁶⁾ Output current Imax.: Response time: ± 1,000 Hz ⁷⁾ Switching frequency:

Cable, 4-wire, 2 m⁸⁾ Connection type:

Cable material: **PVC** Conductor cross-section:

0.14 mm² A, B, C ⁹⁾ 10) 11) Circuit protection:::

Ш Protection class: Weight: 180 g Polarisation filter: IO-Link:

PMMA Optics material:

IP 66, IP 67, IP 68, IP 69K ¹²⁾ Enclosure rating:

D12 adapter shaft, Detection of transparent objects Special feature:

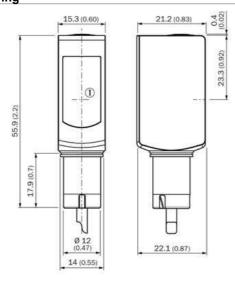
Ambient operating temperature: -10 °C ... +50 °C -30 °C ... +70 °C Ambient storage temperature: -30 °C ... +55 °C ¹³⁾ ¹⁴⁾ Ambient operating temperature extended::

Mechanical connection: D12 adapter shaft

Stainless steel, Stainless steel V4A (1.4404, 316L) Housing material:

1) Limit values, operation in short-circuit protected network max. 8 A 2) May not exceed or fall short of V_S tolerances 3) Without load 4) 5) Q = light switching 6) Signal transit time with resistive load 7) With light/dark ratio 1:1 8) Do not bend below 0 °C 9) A = V_S connections reverse-polarity protected 11) B = inputs and output reverse-polarity protected 11) C = interference suppression 12) Only in case of correctly mounted IP 69K connecting cable 13) As of T a = 50 °C, a max. supply voltage a = 24 V and a max. load current I = 50 mA is permitted Using the sensor below T = -10 °C is possible, if the sensor is turned on at T > -10 °C, then the max. environment cools down and the sensor is not disconnected from the supply voltage during the whole time. It is not allowed to turn on the sensor below T = -10 °C

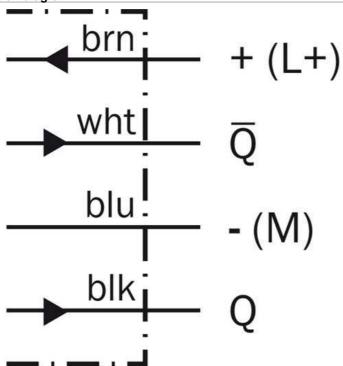
Dimensional drawing



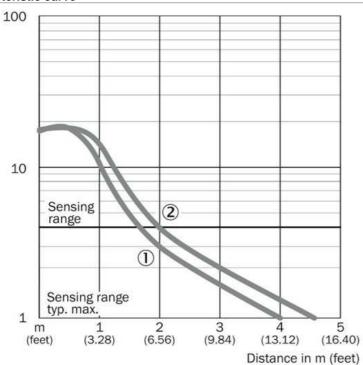
- |1| Center of optical axis
- |2| Status indicator LED, yellow: Status of received light beam
- |3| Status indicator LED green: power on
- |4| single teach-in button



Connection diagram



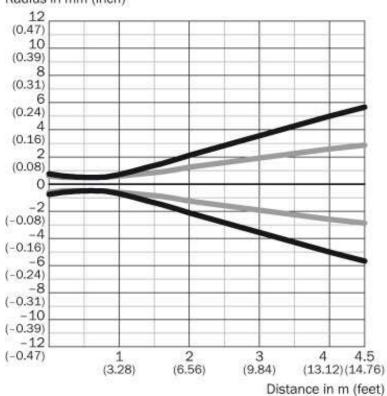
Characteristic curve



|1| PLV14-A / PLH25-M12 / PLH25-D12 |2| P41F / REF-AC1000

Light spot size

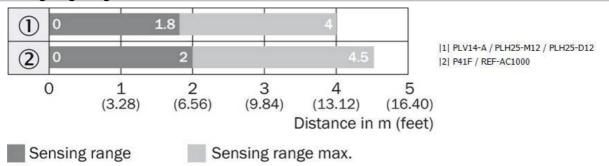
Radius in mm (inch)



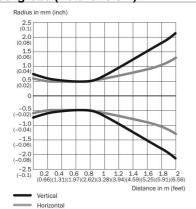
Dimensions in mm (inch)



Sensing range diagram



Lichtfleckgröße (Detailansicht)



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