



AS30-PBM314I110ZZZ

AS30

ARRAY SENSORS

SICK
Sensor Intelligence.



Illustration may differ



Ordering information

| Type | Part no. |
|--------------------|----------|
| AS30-PBM314I110ZZZ | 1095583 |

Other models and accessories → www.sick.com/AS30

Detailed technical data

Features

| | |
|---|----------------------------------|
| Sensor principle | Proximity system |
| Functional principle | Web guiding, positioning |
| Principle of operation (default) | Positioning |
| Dimensions (W x H x D) | 31 mm x 62 mm x 52.2 mm |
| Sensing distance | ≤ 25 mm |
| Housing design | Rectangular |
| Working range | 20 mm ... 30 mm |
| Measurement range | 30 mm |
| Minimum detectable object (MDO) | 0.2 mm |
| Light source | LED, White |
| Wave length | 400 nm ... 700 nm |
| Light spot size | 39 mm x 12.2 mm |
| Repeatability | 0.2 mm ¹⁾ |
| Linearity (position value) | ± 2 % |
| Resolution | 0.1 mm |
| Adjustment | IO-Link, Display |
| Teach-in mode | Edge detection Area detection |

¹⁾ With respect to sensing distance.

Mechanics/electronics

| | |
|---|---|
| Supply voltage | 18 V ... 30 V |
| Ripple | $\leq 5 \text{ V}^{1)}$ |
| Current consumption | $< 3.1 \text{ W}^{2)}$ |
| Switching frequency | 500 Hz |
| Switching output | Push-pull: PNP/NPN |
| Switching output (voltage) | Push-pull: PNP/NPN HIGH = $U_V - 3 \text{ V}$ /LOW $\leq 3 \text{ V}$ |
| Analog output | 4 mA ... 20 mA |
| Resolution of analog output | 12 bit |
| Output rate of analog output | 1 ms |
| Output current I_{max} | $< 100 \text{ mA}$ |
| Initialization time | 0.48 s |
| Connection type | Male connector M12, 5-pin |
| Protection class | III ³⁾ |
| Circuit protection | U_V connections, reverse polarity protected Output Q short-circuit protected Interference pulse suppression |
| Enclosure rating | IP67 |
| Weight | 250 g |
| Housing material | Zinc diecast |

¹⁾ May not fall below or exceed U_V tolerances.

²⁾ Without load.

³⁾ $I_N = 2 \text{ A}$.

Communication interface

| | |
|-------------------|--------------------|
| IO-Link | ✓ |
| VendorID | 26 |
| DeviceID HEX | 0x800207 |
| DeviceID DEC | 8389127 |
| Cycle time | $> 1.1 \text{ ms}$ |

Ambient data

| | |
|--------------------------------------|---------------------------------------|
| Ambient operating temperature | $-10 \text{ °C} \dots +55 \text{ °C}$ |
| Ambient temperature, storage | $-25 \text{ °C} \dots +75 \text{ °C}$ |
| Shock load | According to IEC 60068 |
| UL File No. | NRKH.E181493 & NRKH7.E181493 |

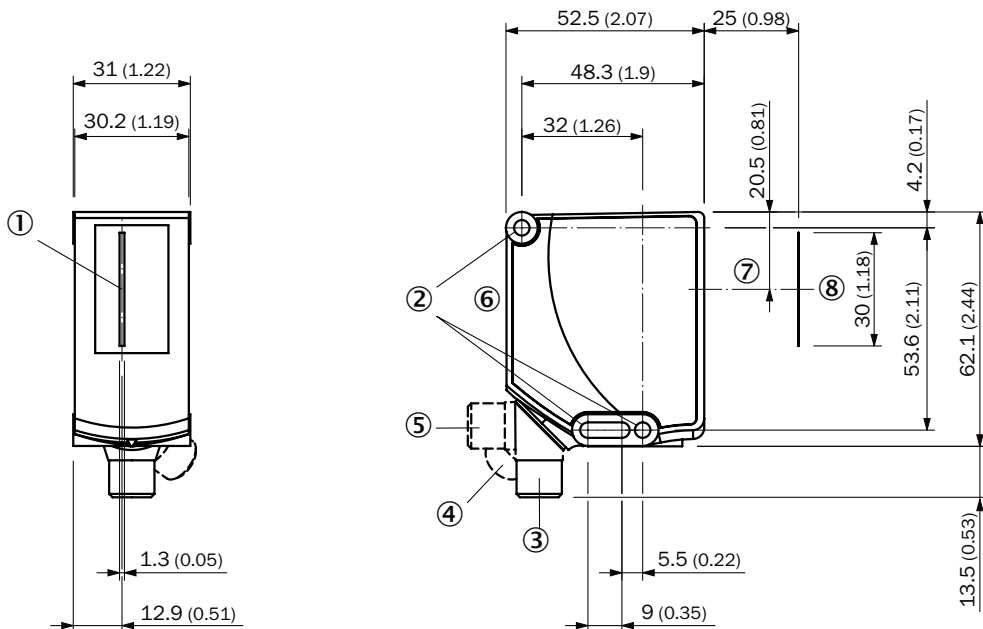
Classifications

| | |
|---------------------|----------|
| ECLASS 5.0 | 27270906 |
| ECLASS 5.1.4 | 27270906 |
| ECLASS 6.0 | 27270906 |
| ECLASS 6.2 | 27270906 |
| ECLASS 7.0 | 27270906 |
| ECLASS 8.0 | 27270906 |
| ECLASS 8.1 | 27270906 |

| | |
|-----------------------|----------|
| ECLASS 9.0 | 27270906 |
| ECLASS 10.0 | 27270906 |
| ECLASS 11.0 | 27270906 |
| ECLASS 12.0 | 27270906 |
| ETIM 5.0 | EC001820 |
| ETIM 6.0 | EC001820 |
| ETIM 7.0 | EC001820 |
| ETIM 8.0 | EC001820 |
| UNSPSC 16.0901 | 39121528 |

Dimensional drawing (Dimensions in mm (inch))

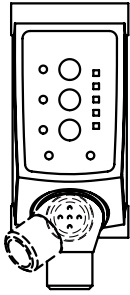
AS30-xxx31xxxxxxx



- ① Center field of view
- ② Fixing hole
- ③ M12 male connector, delivery state
- ④ M12 male connector, end stop right
- ⑤ M12 male connector, end stop left
- ⑥ Display and adjustment elements
- ⑦ Optical axis
- ⑧ Field of view

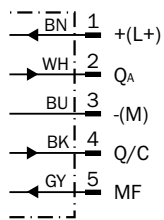
Adjustments

Display and adjustment elements








Connection diagram






Cd-435



Recommended accessories

Other models and accessories → www.sick.com/AS30

| | Brief description | Type | Part no. |
|---|---|-----------------------|----------|
| Universal bar clamp systems | | | |
|  | Plate K for universal clamp bracket, steel, zinc coated, Universal clamp (2022726), mounting hardware | BEF-KHS-K01 | 2022718 |
|  | Mounting bar, straight, 200 mm, steel, steel, zinc coated, without mounting hardware | BEF-MS12G-A | 4056054 |
|  | Mounting bar, L-shaped, 150 mm x 150 mm, steel, steel, zinc coated, without mounting hardware | BEF-MS12LA | 4056052 |
| Mounting brackets and plates | | | |
|  | Aluminum, mounting hardware for the sensor included | BEF-AP-AS30 | 2124602 |
| Terminal and alignment brackets | | | |
|  | Holder for reflector foil (scope of delivery AS30) or accessory reflector. Simply align and set the correct scanning distance., steel, zinc coated, Reflector holder, screw set for AS30 and reflector PL25FA (5340878) | REFLECTORHOLD-ER SD25 | 2107380 |

| | Brief description | Type | Part no. |
|--|--|--------------------------|----------|
|  | Bracket for easy mounting of ELA external illumination as a backlight. Suitable for all AS30 Prime with 25 mm sensing distance., steel, zinc coated, Mounting bracket, Screw set for AS30 and ELA | SET FORK HOLDER ELA SD25 | 2134662 |
| Others | | | |
|  | <ul style="list-style-type: none"> • Connection type head A: Male connector, M12, 5-pin, straight, A-coded • Description: Unshielded, Head A: male connector, M12, 5-pin, straight, unshielded, for cable diameter 4 mm ... 6 mm Head B: - • Connection systems: Screw-type terminals • Permitted cross-section: ≤ 0.75 mm² • Note: For field bus technology | STE-1205-G | 6022083 |
|  | <ul style="list-style-type: none"> • Connection type head A: Female connector, M12, 5-pin, straight, A-coded • Connection type head B: Flying leads • Signal type: Sensor/actuator cable • Cable: 5 m, 5-wire, PVC • Description: Sensor/actuator cable, unshielded • Application: Zones with chemicals, Uncontaminated zones | YF2A15-050VB5XLEAX | 2096240 |
| Sensor Integration Gateway | | | |
|  | <ul style="list-style-type: none"> • Further functions: Web server integrated, USB connection for easy configuration of the SIG200 Sensor Integration Gateway with SOPAS ET, the engineering tool from SICK, logic editor is available for easy configuration of logic functions • Connection CONFIG: 1 x M8, 4-pin female connector, USB 2.0 (USB-A) • Logic editor: yes • Communication interface: IO-Link, USB, Ethernet, PROFINET, REST API • Product category: IO-Link Master | SIG200-0A0412200 | 1089794 |
|  | <ul style="list-style-type: none"> • Further functions: Web server integrated, USB connection for easy configuration of the SIG200 Sensor Integration Gateway with SOPAS ET, the engineering tool from SICK, logic editor is available for easy configuration of logic functions • Connection CONFIG: 1 x M8, 4-pin female connector, USB 2.0 (USB-A) • Logic editor: yes • Communication interface: IO-Link, USB, Ethernet, REST API • Product category: IO-Link Master | SIG200-0A0G12200 | 1102605 |

Recommended services

Additional services → www.sick.com/AS30

| | Type | Part no. |
|---|------------------------|------------|
| Function Block Factory | | |
| <ul style="list-style-type: none"> • Description: The Function Block Factory is an engineering tool for creating device and environment-specific function blocks that enable IO-Link sensors to be integrated into programmable logic controllers. The Function Block Factory supports common programmable logic controllers (PLCs) of various manufacturers such as Siemens, Beckhoff, Rockwell Automation B&R and more. More information on the FBF can be found here . • Provision: Customers can obtain access to the Function Block Factory and the license via https://fbf.cloud.sick.com. | Function Block Factory | On request |

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

WORLDWIDE PRESENCE:

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