



# AS30-EBM314I220C00

AS30

**ARRAY SENSORS** 





Illustration may differ

**( € 10**-Link

## Ordering information

Туре	Part no.
AS30-EBM314I220C00	1121191

Included in delivery: REF-AX-002 (1)

Principle of operation preset to PSDI mode

Measuring range preconfigured to 20 mm

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

#### Detailed technical data

#### **Features**

Sensor principle	Proximity system, Reflector mode
Functional principle	Web guiding, positioning
Principle of operation (default)	Web guiding
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	20 mm
Minimum detectable object (MD0)	0.2 mm
Light source	LED, White
Wave length	400 nm 700 nm
Light spot size	38.9 mm x 11.1 mm
Repeatability	0.03 mm <sup>1)</sup>
Linearity (position value)	± 2 %
Resolution	1 µm
Adjustment	IO-Link, Display
Teach-in mode	Edge detection Area detection

 $<sup>^{1)}\,\</sup>mathrm{With}$  respect to sensing distance.

## Mechanics/electronics

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

 $<sup>^{1)}\,\</sup>mathrm{May}$  not exceed or fall below  $\mathrm{U}_{\mathrm{V}}$  tolerances.

#### Communication interface

IO-Link	<b>√</b>
VendorID	26
DeviceID HEX	0x80020B
DeviceID DEC	8389131
Cycle time	> 1.1 ms

## Ambient data

Ambient operating temperature	−10 °C +55 °C
Ambient temperature, storage	-25 °C +75 °C
Shock load	According to IEC 60068
UL File No.	NRKH.E181493 & NRKH7.E181493

# Smart Task

Smart Task name	Base logics
Logic function	Direct AND OR Window
Switching signal	
Switching signal Q <sub>L1</sub>	Switching output

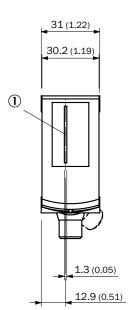
<sup>&</sup>lt;sup>2)</sup> Without load.

<sup>&</sup>lt;sup>3)</sup> I<sub>N</sub> = 2 A.

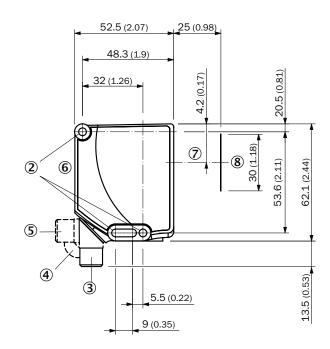
Switching signal Q <sub>L2</sub>	Switching output
Classifications	
Classifications	
ECLASS 5.0	27270906
ECLASS 5.1.4	27270906
ECLASS 6.0	27270906
ECLASS 6.2	27270906
ECLASS 7.0	27270906
ECLASS 8.0	27270906
ECLASS 8.1	27270906
ECLASS 9.0	27270906
ECLASS 10.0	27270906
ECLASS 11.0	27270906
ECLASS 12.0	27270906
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-xxx31xxxxxxxx



- 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



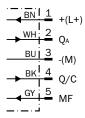
## Adjustments

Display and adjustment elements



#### Connection diagram

Cd-435



#### Recommended accessories

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

	Brief description	Туре	Part no.
Connection r	modules		
2 4	IO-Link V1.1 Class A port, USB2.0 port, optional external power supply 24V $/$ 1A	IOLA2US-01101 (SiLink2 Master)	1061790
Universal ba	r clamp systems		
4	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-MS12L-A	4056052
Mounting bra	ackets and plates		
C. C.	Aluminum, mounting hardware for the sensor included	BEF-AP-AS30	2124602
Plug connect	tors and cables		
	<ul> <li>Connection type head A: Female connector, M12, 5-pin, straight, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 5 m, 5-wire, PVC</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Zones with chemicals</li> </ul>	YF2A15- 050VB5XLEAX	2096240
	Connection type head A: Male connector, M12, 5-pin, straight 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

	Brief description	Туре	Part no.	
Reflectors	Reflectors			
	Fine triple, planar, suitable for laser sensors, 75 mm x 25 mm, PMMA/ABS, screwable	PL25FA	5340878	
Terminal and	alignment brackets			
R	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	
	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 HOLD- ER ELA SD25	2134662	
Sensor Integ	Sensor Integration Gateway			
	<ul> <li>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</li> <li>Connection CONFIG: 1 x M8, 4-pin female connector, USB 2.0 (USB-A)</li> <li>Logic editor: yes</li> <li>Communication interface: IO-Link, USB, Ethernet, PROFINET, REST API</li> <li>Product category: IO-Link Master</li> </ul>	SIG200-0A0412200	1089794	
	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	

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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."

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