



AS30-EBM314I220C00

AS30

ARRAY SENSORS





Illustration may differ

Ordering information

Туре	Part no.
AS30-EBM314I220C00	1121315

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

Customized preset detection parameters.

Predecessor device AL20E-PM114S17

Principle of operation preset to reflector 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 (MDO)	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 ¹⁾
Linearity (position value)	± 2 %
Resolution	1 µm
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	≤ 5 V ¹⁾
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 _{max.}	< 100 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
Optics material	Anti-reflex coating

 $^{^{1)}\,\}mbox{May}$ not fall below or exceed $\mbox{U}_{\mbox{\scriptsize V}}$ tolerances.

Communication interface

IO-Link	✓
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 _{L1}	Switching output

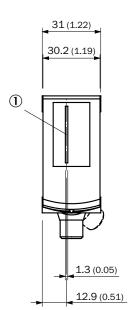
²⁾ Without load.

³⁾ I_N = 2 A.

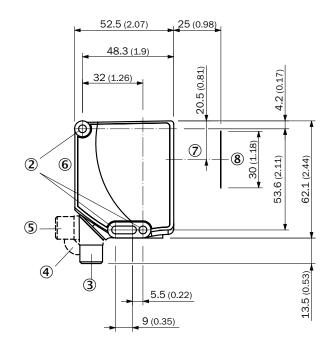
2 11 11 12	
Switching signal Q _{L2}	Switching output
Classifications	
ECLASS 5.0	27270906
ECLASS 5.1.4	27270906
ECLASS 6.0	27270906
ECLASS 6.2	27270906
ECLASS 7.0	27270906
ECLASS 8.0	27270906
ECLASS 8.1	27270906
ECLASS 9.0	27270906
ECLASS 10.0	27270906
ECLASS 11.0	27270906
ECLASS 12.0	27270906
ETIM 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
- Display and adjustment elements
- ⑦ Optical axis
- 8 Field of view



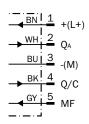
Adjustments

Display and adjustment elements



Connection diagram

Cd-435



Recommended accessories

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

	Brief description	Туре	Part no.
Connection modules			
	 Description: IO-Link V1.1 Class A port, USB2.0 port, optional external power supply 24V / 1A Logic editor: no 	IOLA2US-01101 (SiLink2 Master)	1061790
R	 Product family: Brackets Description: Holder for reflector foil (scope of delivery AS30) or accessory reflector. Simply align and set the correct scanning distance. Details: Steel, zinc coated Items supplied: Reflector holder, screw set for AS30 and reflector PL25FA (5340878) Suitable for: AS30 	REFLECTORHOLD- ER SD25	2107380
	 Product family: Assembly accessories Description: Bracket for easy mounting of ELA external illumination as a backlight. Suitable for all AS30 Prime with 25 mm sensing distance. Details: Steel, zinc coated Items supplied: Mounting bracket, Screw set for AS30 and ELA Suitable for: AS30, ELA, AS30 	SET FORK HOLD- ER ELA SD25	2134662
	 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
	 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
	 Product family: Brackets Description: Plate K for universal clamp bracket Material: Steel Details: Steel, zinc coated Items supplied: Universal clamp (2022726), mounting hardware Usable for: W11-2, W12-3, W14-2, W18-3, W23-2, W24-2, W27-3, W30, W32, W34, W36, PL50A, PL80A, P250, UC12, LUT3, KT2, KT5-2, KT8, CS8, DT2, DS30, DS40, W12-2 Laser, W16, W26, KT5 	BEF-KHS-K01	2022718

	Brief description	Туре	Part no.
	 Product family: Brackets Description: Mounting bar, straight, 200 mm, steel Material: Steel Details: Steel, zinc coated Items supplied: Without mounting hardware Usable for: Fiber-optic sensors 	BEF-MS12G-A	4056054
	 Product family: Brackets Description: Mounting bar, L-shaped, 150 mm x 150 mm, steel Material: Steel Details: Steel, zinc coated Items supplied: Without mounting hardware Usable for: Fiber-optic sensors 	BEF-MS12L-A	4056052
	 Description: Fine triple, planar, suitable for laser sensors Dimensions: 75 mm 25 mm Ambient operating temperature: -30 °C +65 °C 	PL25FA	5340878
Ca.	 Product family: Brackets Material: Aluminum Details: Aluminum Items supplied: Mounting hardware for the sensor included Usable for: Adapter plate for AX20 to AS30 	BEF-AP-AS30	2124602
Sensor Integra	ation Gateway		
	 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, USB, Ethernet, PROFINET Product category: IO-Link Master 	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, USB, Ethernet, REST API Product category: IO-Link Master	SIG200-0A0G12200	1102605

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