



AS30-EBM544I220A00

AS30

ARRAY SENSORS

SICK
Sensor Intelligence.



Illustration may differ



Ordering information

Type	part no.
AS30-EBM544I220A00	1121628

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

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

Detailed technical data

Features

Sensor principle	Reflector mode
Functional principle	Web guiding, positioning
Principle of operation (default)	Web guiding
Housing design	Middle
Dimensions (W x H x D)	31 mm x 62 mm x 52.2 mm
Light source	LED, White
Light spot size	150 mm x 25 mm
Wave length	400 nm ... 700 nm
Working range	240 mm ... 260 mm
Measurement range	50 mm
Sensing distance	≤ 250 mm
Minimum detectable object (MDO)	0.5 mm
Linearity (position value)	± 2 %
Resolution	10 µm
Repeatability	0.05 mm ¹⁾
Adjustment	IO-Link, Display
Teach-in mode	Edge detection Area detection

¹⁾ With respect to sensing distance.

Output time	5 ms
Safety-related parameters	
MTTF _D	271 years

¹⁾ With respect to sensing distance.

Interfaces

IO-Link	✓
VendorID	26
DeviceID HEX	0x80020B
DeviceID DEC	8389131
Cycle time	> 1.1 ms

Electronics

Supply voltage	18 V ... 30 V
Ripple	≤ 5 V ¹⁾
Current consumption	< 3.1 W ²⁾
Initialization time	0.48 s
Switching frequency	100 Hz
Switching output	Push-pull: PNP/NPN
Switching output (voltage)	Push-pull: PNP/NPN HIGH = U _V - 3 V/LOW ≤ 3 V
Analog output	4 mA ... 20 mA
Resolution of analog output	12 bit
Output rate of analog output	5 ms
Output current I_{max}	< 100 mA
Protection class	III ³⁾
Circuit protection	U _V connections, reverse polarity protected Output Q short-circuit protected Interference pulse suppression
Connection type	Plug, M12, 5-pin

¹⁾ May not fall below or exceed U_V tolerances.

²⁾ Without load.

³⁾ I_N = 2 A.

Mechanics

Housing material	Zinc diecast
Optics material	Anti-reflex coating
Weight	250 g

Ambient data

Ambient operating temperature	-10 °C ... +55 °C
Ambient temperature, storage	-25 °C ... +75 °C
Shock load	According to IEC 60068
Enclosure rating	IP67
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
Switching signal Q _{L2}	Switching output

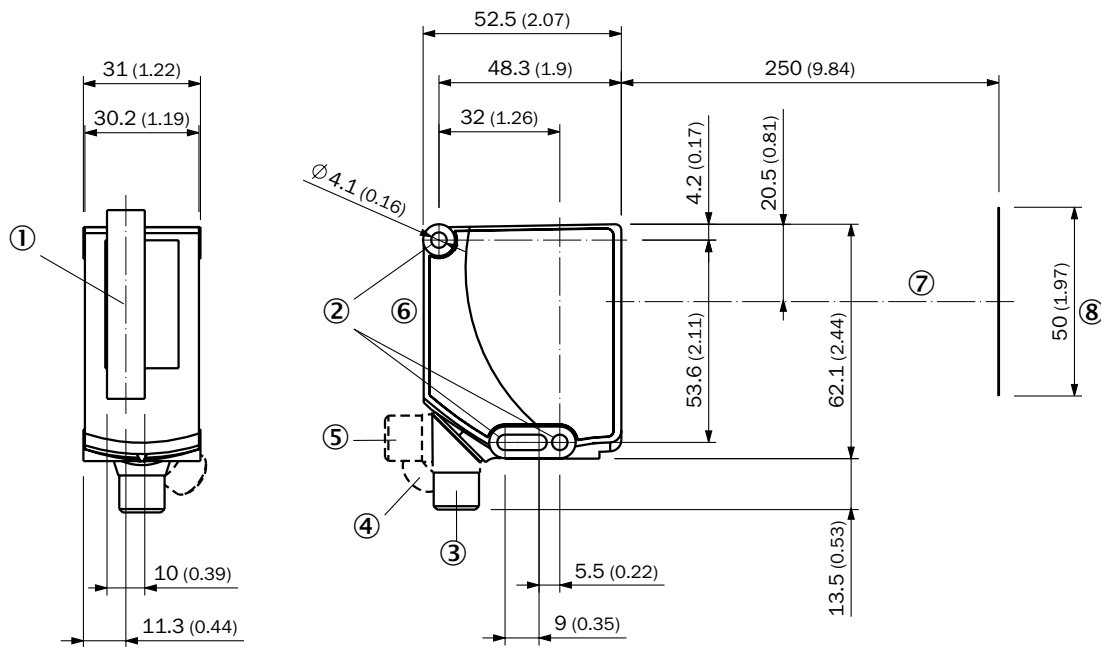
Certificates

EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
Moroccan declaration of conformity	✓
China RoHS	✓
cULus certificate	✓
IO-Link certificate	✓
Photobiological safety (IEC EN 62471)	✓
Information according to Art. 3 of Data Act (Regulation EU 2023/2854)	✓

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

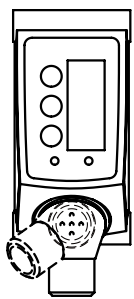
Dimensional drawing AS30-xxx54xxxxxxx



Dimensions in mm (inch)

- 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

display and adjustment elements













Connection diagram Cd-435



Recommended accessories

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

	Brief description	Type	part no.
Mounting systems			
	<ul style="list-style-type: none"> Description: Bracket for reflective foil (scope of delivery of AS30) or accessory reflector. Simple alignment and adjustment of the correct sensing distance. Material: Steel Details: Steel, zinc coated Items supplied: Reflector holder, screw set for AS30 Suitable for: AS30 	REFLECTORHOLD-ER SD100	2107379
	<ul style="list-style-type: none"> Description: Bracket for easy mounting of ELA external illumination as a backlight. Suitable for all AS30 Prime with sensing distance 100 mm. Material: Steel Details: Steel, zinc coated Items supplied: Reflector holder, screw set for AS30 Suitable for: AS30, ELA 	SET FORK HOLD-ER ELA SD100	2134661
	<ul style="list-style-type: none"> 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
	<ul style="list-style-type: none"> Material: Aluminum Details: Aluminum Items supplied: Mounting hardware for the sensor included Usable for: Adapter plate for AX20 to AS30 	BEF-AP-AS30	2124602
connectors and cables			
	<ul style="list-style-type: none"> Description: Unshielded Connection type head A: Male connector, M12, 5-pin, straight, A-coded 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"> Description: Sensor/actuator cable, unshielded 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 Application: Uncontaminated zones, Zones with chemicals 	YF2A15-050VB5XLEAX	2096240

	Brief description	Type	part no.
network devices			
		SIG200-0A0412200	1089794
		SIG200-0A0G12200	1102605
reflectors and optics			
	<ul style="list-style-type: none"> • Description: Fine triple, planar, suitable for laser sensors • Dimensions: 75 mm 25 mm • Ambient operating temperature: -30 °C ... +65 °C 	PL25FA	5340878
integration modules and adapters			
		IOLA2US-01101 (SiLink2 Master)	1061790

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:

Contacts and other locations –www.sick.com