Data sheet



AS30-EBM444I110ZZZ

AS30

ARRAY SENSORS

SICK
Sensor Intelligence.



Illustration may differ

Ordering information

Type	part no.
AS30-EBM444I110ZZZ	1121646

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)	Web guiding
Dimensions (W x H x D)	31 mm x 62 mm x 52.2 mm
Sensing distance	≤ 250 mm
Housing design	Rectangular
Working range	240 mm ... 260 mm
Measurement range	45 mm
Minimum detectable object (MDO)	1.2 mm
Light source	LED, White
Wave length	400 nm ... 700 nm
Light spot size	150 mm x 24 mm
Repeatability	0.2 mm [1)]
Linearity (position value)	± 2 %
Resolution	0.1 mm
Adjustment	IO-Link
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	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
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] May not fall below or exceed U_V tolerances.

[2] Without load.

[3] I_N = 2 A.

Communication interface

IO-Link	✓
VendorID	26
DeviceID HEX	0x800207
DeviceID DEC	8389127
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

Certificates

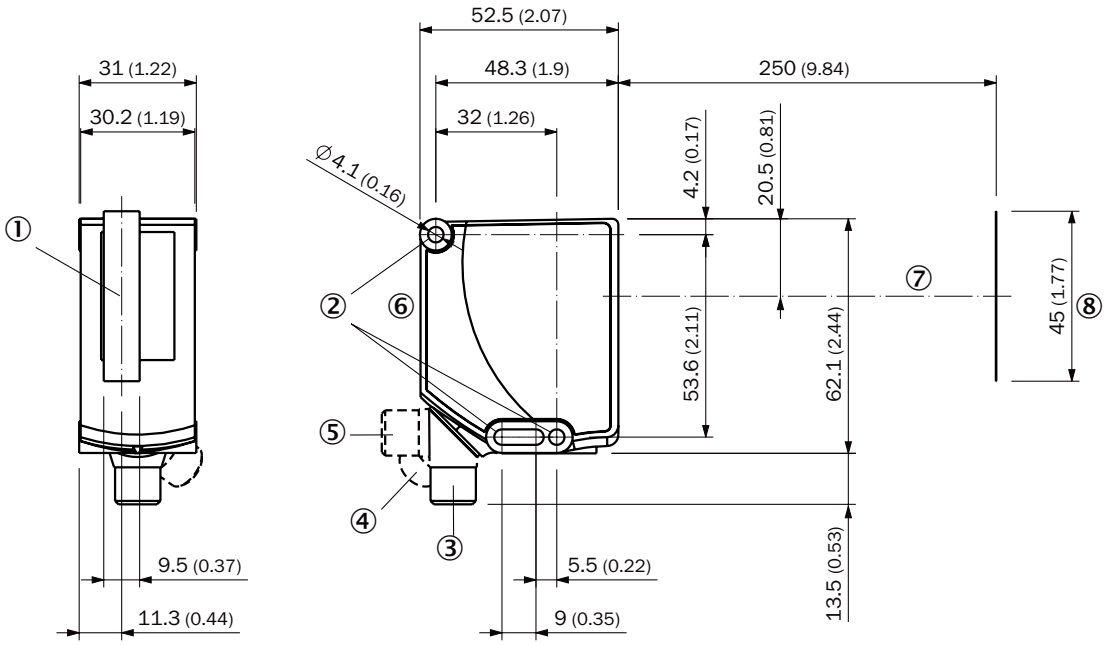
EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
Moroccan declaration of conformity	✓
China-RoHS	✓

cULus certificate	✓
IO-Link	✓
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

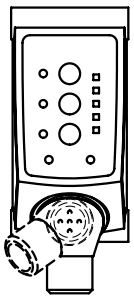
Dimensional drawing AS30-xxx44xxxxxxxx



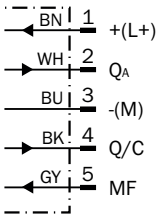
Dimensions in mm (inch)

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			
	• **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 HOLDER ELA SD100	2134661
	• **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
	• **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			
	• **Connection type head A:** Male connector, M12, 5-pin, straight, A-coded • **Description:** Unshielded • **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
network devices			
		SIG200-0A0412200	1089794
		SIG200-0A0G12200	1102605

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