



# AS30-MBM834I320A00 AS30

ARRAY SENSORS

**SICK**Sensor Intelligence.



#### Ordering information

Туре	part no.
AS30-MBM834I320A00	1118222

Included in delivery: REF-7610-K (1)

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

Illustration may differ



#### Detailed technical data

#### **Features**

Sensor principle	Proximity system, Reflector mode
Functional principle	Multi-edge, Web guiding, positioning, Width measurement, Center point measurement
Principle of operation (default)	Multi-edge: Detection and evaluation of up to 8 edges
Dimensions (W x H x D)	31 mm x 62 mm x 52.2 mm
Sensing distance	≤ 100 mm
Housing design	Rectangular
Working range	90 mm 110 mm
Measurement range	165 mm
Minimum detectable object (MD0)	2 mm
Light source	LED, White
Wave length	400 nm 700 nm
Light spot size	210 mm x 13.2 mm
Repeatability	0.15 mm <sup>1)</sup>
Linearity (position value)	± 1 %
Resolution	0.1 mm
Adjustment	IO-Link
Teach-in mode	Edge detection Area detection Edge functions (width, sum, smallest, largest, midpoint or subtraction)

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

#### Mechanics/electronics

Supply voltage	18 V 30 V
Ripple	$\leq$ 5 V $^{1)}$
Current consumption	$< 3.1 \mathrm{W}^{2)}$
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	2 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	Zinc diecast
Optics material	Anti-reflex coating

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

#### Communication interface

IO-Link	<b>√</b>
VendorID	26
DeviceID HEX	0x800209
DeviceID DEC	8389129
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>3)</sup> I<sub>N</sub> = 2 A.

Switching signal Q <sub>L2</sub> Switching output	
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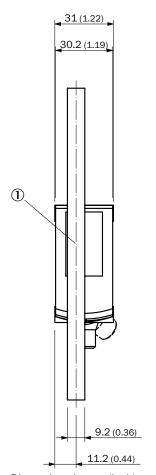
#### Certificates

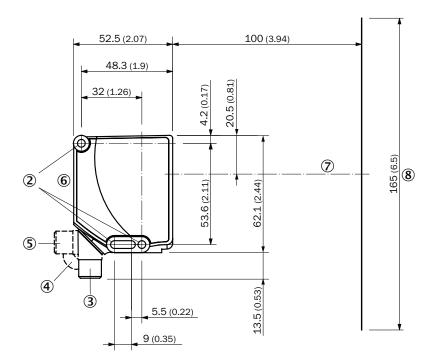
EU declaration of conformity	✓
UK declaration of conformity	<b>√</b>
ACMA declaration of conformity	<b>√</b>
Moroccan declaration of conformity	<b>√</b>
China RoHS	<b>√</b>
cULus certificate	✓
IO-Link certificate	✓
Photobiological safety (IEC EN 62471)	✓
Information according to Art. 3 of Data Act (Regulation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

#### 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-xxx83xxxxxxxx

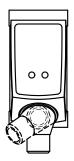




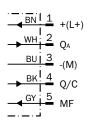
Dimensions in mm (inch)

- 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	Туре	part no.
reflectors and optics			
	Description: Self-adhesive, not suitable for photoelectric retro-reflective sensors with polarisation filter, customizable length by roll     Dimensions: 610 mm 4,570 mm     Ambient operating temperature: -25 °C +65 °C	REF-7610-0K4	5600079
Mounting syst	rems		
C. C.	<ul> <li>Material: Aluminum</li> <li>Details: Aluminum</li> <li>Items supplied: Mounting hardware for the sensor included</li> <li>Usable for: Adapter plate for AX20 to AS30</li> </ul>	BEF-AP-AS30	2124602
	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
9	<ul> <li>Description: Plate K for universal clamp bracket</li> <li>Material: Steel</li> <li>Details: Steel, zinc coated</li> <li>Items supplied: Universal clamp (2022726), mounting hardware</li> <li>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</li> </ul>	BEF-KHS-K01	2022718
connectors ar	nd 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
<b>P</b>	<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, Uncontaminated zones</li> </ul>	YF2A15-050VB5XLEAX	2096240

## AS30-MBM834I320A00 | AS30

ARRAY SENSORS

	Brief description	Туре	part no.	
network devic	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

