



AS30-MBM834I320A00

AS30

ARRAY SENSORS

SICK
Sensor Intelligence.



Illustration may differ

Ordering information

Type	part no.
AS30-MBM834I320A00	1118222

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

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

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
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	210 mm x 13.2 mm
Wave length	400 nm ... 700 nm
Working range	90 mm ... 110 mm
Measurement range	165 mm
Sensing distance	≤ 100 mm
Minimum detectable object (MDO)	2 mm
Linearity (position value)	± 1 %
Resolution	0.1 mm
Repeatability	0.15 mm ¹⁾
Adjustment	IO-Link
Teach-in mode	Edge detection Area detection

¹⁾ With respect to sensing distance.

Output time	Edge functions (width, sum, smallest, largest, midpoint or subtraction)
Safety-related parameters	2 ms
MTTF _D	271 years

¹⁾ With respect to sensing distance.

Interfaces

IO-Link	✓
VendorID	26
DeviceID HEX	0x800209
DeviceID DEC	8389129
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	500 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	2 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

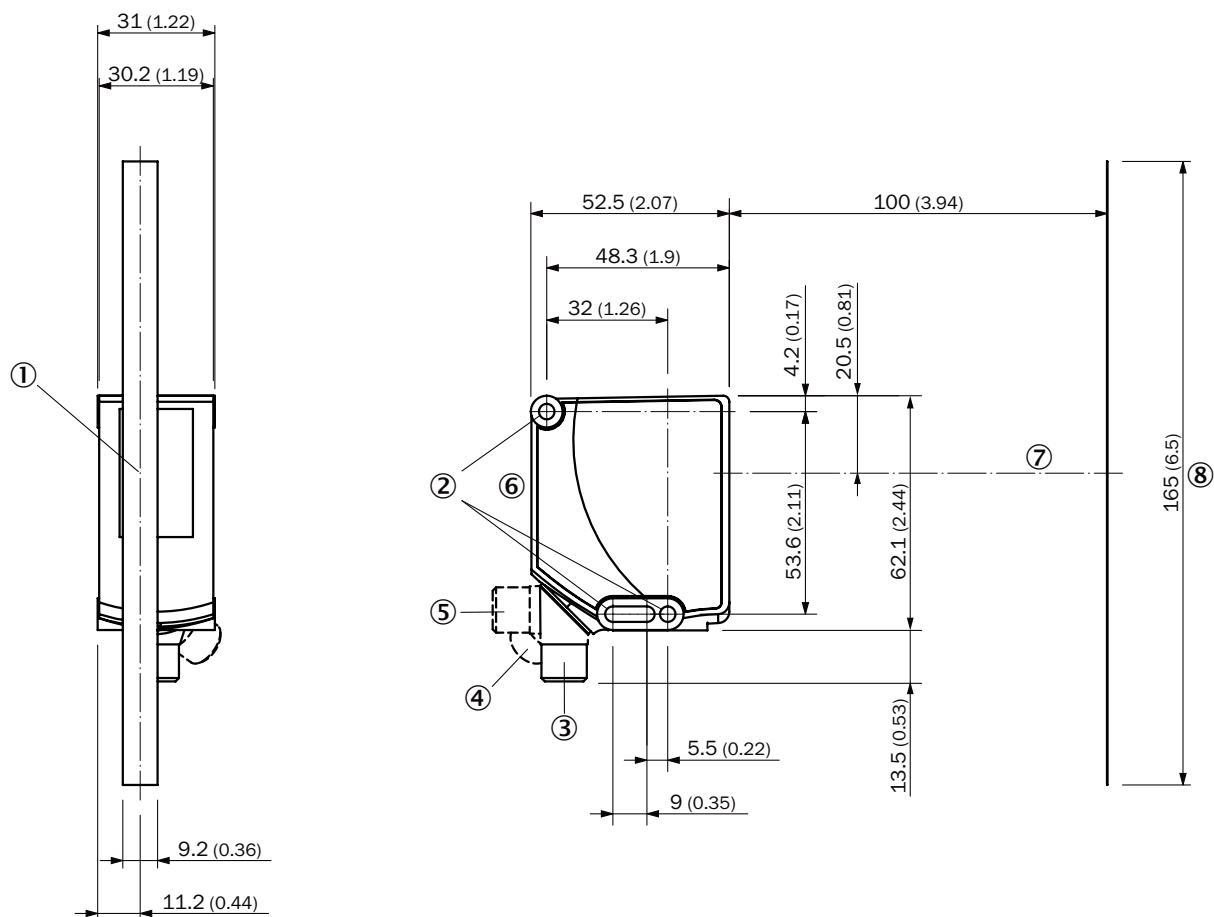
Classifications

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

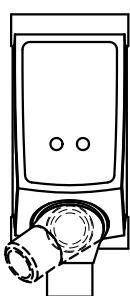
Certificates

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)	✓

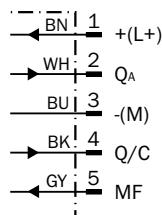
Dimensional drawing AS30-xxx83xxxxxxxx



display and adjustment elements



Connection diagram Cd-435



Recommended accessories

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

	Brief description	Type	part no.
reflectors and optics			
	<ul style="list-style-type: none"> Description: Self-adhesive, not suitable for photoelectric retro-reflective sensors with polarisation filter, customizable length by roll Dimensions: 610 mm x 4,570 mm Ambient operating temperature: -25 °C ... +65 °C 	REF-7610-0K4	5600079
Mounting systems			
	<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
	<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 HOLDER 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
connectors and cables			
	<ul style="list-style-type: none"> 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
	<ul style="list-style-type: none"> 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

	Brief description	Type	part no.
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