



Area Sensor

AS-B□□□□、AS-B□□□□-C Series Instruction Sheet

EN 简



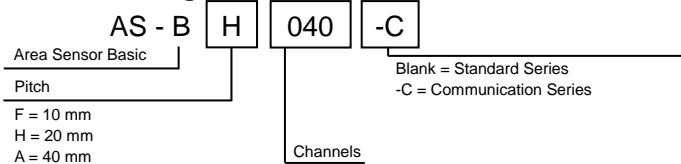
Warning

- ✓ This product is designed to use under IEC 61508-5 standard "no safety requirements" and "no special safety requirements" applications
- ✓ DO NOT connect AC power to any terminals of the sensor to avoid serious damage. Please check all wiring again before powering up the sensor.

CAUTION

- Keep high current density cables or motor cables away from the sensor; avoid high noise interfering with the sensor functions.
- Do not disassemble the sensor by yourself.

AS-B Ordering Information

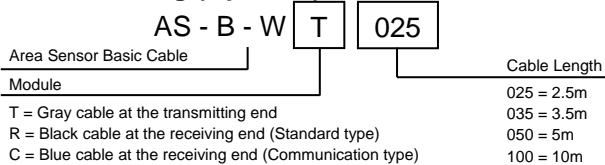


Series ordering is include

1. AS-B □□□□-TX Emitter with 200mm cable (Gray)
2. Communication series : AS-B □□□□-CX Receiver with 200mm cable (Blue) or Standard series : AS-B □□□□-RX Receiver with 200mm cable (Black)
3. Instruction Sheet
4. Fixed Bracket AS-BK01: The number of bracket depends on Protective height
160mm or longer and up to 320mm: 2 pcs
400mm or longer and up to 1,680mm: 4 pcs
1760mm or longer and up to 1,920mm: 6 pcs

- ※ Cables are optional.
- ※ You can also purchase the transmitter, receiver and the AS-B-BK □□ separately. For details, please refer to the official website information.

Cable Ordering (Optional)



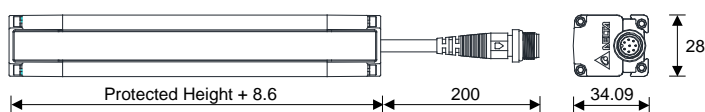
Model Information (Min. & Max.)

Detection	Model	Channels	Protect Height	Protect Distance
Finger	AS-BF024 ~ 128 (-C)	24 ~ 128	240 ~ 1280	0.1m ~ 5m
Hand	AS-BH008 ~ 096 (-C)	8 ~ 96	160 ~ 1920	0.1m ~ 10m
Arm	AS-BA004 ~ 036 (-C)	4 ~ 36	160 ~ 1440	

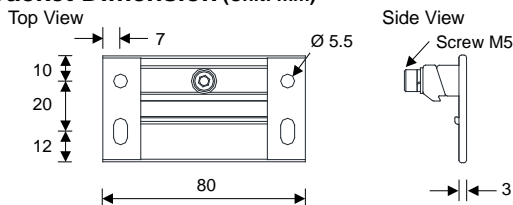
Specifications (All models)

Voltage Range	24VDC ± 10%
Light Source	Infrared LED (850nm)
Indicator	Upper/lower indicator (Blue Light): When the top/bottom are aligned Green Light: All channel are aligned Red Light: Any channel is misaligned or blocked Orange Light: When the sync signal disappears
Protection Circuit	Protection against reverse power connection, Power supply surge, Output overcurrent, Output surge
Operating Temperature	-10°C ~ 55°C, No freezing
Storage Temperature	-25°C ~ 60°C
Ambient Humidity	30 ~ 85%
Enclosure Rating	IP 67
Ambient Light Resistance	10,000 Lux or less
Vibration Resistance	10~55 Hz, 1.5mm, 3 axes for 2 hours
Shock Resistance	Max. 100 m/s², 3 axes, 6 directions and 3 times in each.
Insulating Resistance	20 MΩ or more(500VDC)
Withstand Voltage	1000 VAC 50/60 Hz 1min
Material	Case: Aluminum, Cover Lens: PMMA, Upper/lower case: Zinc alloy
Cables	M12 Connector, 200mm PVC Cable
Certifications	CE

Dimension (Unit: mm)

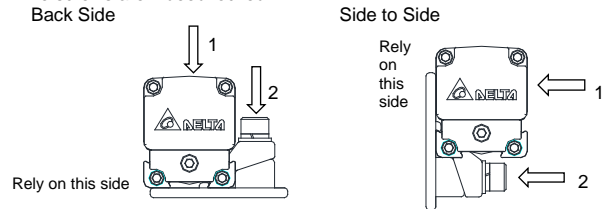


Bracket Dimension (Unit: mm)

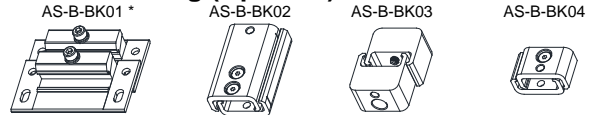


Mounting Side

1. Match the product exactly to the plane of the bracket.
2. The screws are indeed locked.

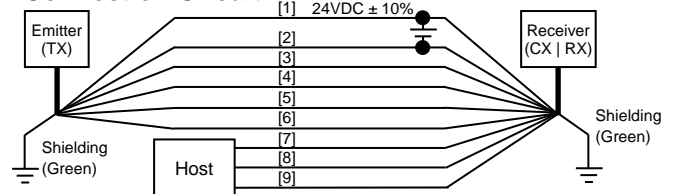


Bracket Ordering (Optional)



* AS-B series order has included fixed bracket AS-B-BK01 and required quantity

Connection Circuit



Number	AS-B □□□□-TX	AS-B □□□□-CX	AS-B □□□□-RX
1		VCC (Brown)	
2		GND (Blue)	
3		SYNC+ (Orange)	
4		SYNC- (Orange/ White)	
5		FB- (Pink/ White)	
6		FB+ (Pink)	
7	-	RS485+ (Red)	NPN (Black)
8	-	RS485- (Yellow)	PNP (White)
9	-	Output (White)	-

◆ First step : Power on the emitter then the receiver.

◆ Second step : The emitter and receiver indicator is blue, then rotate slightly emitter or receiver.

Troubleshooting

Indicator	Cause	Solution
No lighting	Poor power contact	✓ Please check if the power connection or the pin of the connector is bent.
Red and green lights flash irregularly	Poor optical axis alignment	✓ Check if it shows green light when align in short distance. ✓ Check the module and bracket installed flat. ✓ Check if the fixing method is susceptible to vibration.
	Electrical interference	✓ Check if the shield is connected to a clean ground. ✓ Whether External high power machine shutdown is improved?
	light source interference	✓ Is there any external glare that affects? ✓ Adjacent light curtain installation, using transmit/receive interleaving.
Red/Green/blue lights are on	Over current	✓ Check output load
Orange light is on	Connection Failed Out of the power range Internal Channel or Voltage Failed	✓ Check the connection and supply voltage ✓ Contact with Delta Service Center

※ All situation happens will make the output become the OFF state.

Industrial Automation Headquarters

Delta Electronics, Inc.

Taoyuan Technology Center

No. 18 Xinglong Rd., Taoyuan District, Taoyuan City, 33068, Taiwan

TEL : 886-3-362-6301 / FAX : 886-3-371-6301

Delta Electronics (Netherlands) BV.

Eindhoven offices

De Witbogt 20, 5652 AG Eindhoven, The Netherlands

TEL : +31-40-2592850 / FAX : +31-40-2592851

Delta Electronics (India) Pvt. Ltd.

Gurgaon Plant

Plot No 43 Sector 35, HSIIDC Gurgaon, PIN 122001, Haryana, India

TEL : 91-124-4874900 / FAX : 91-124-4874945

Delta Products Corporation (USA)

Raleigh Office

P.O. Box 12173, 5101 Davis Drive, Research Triangle Park, NC 27709, U.S.A.

TEL : 1-919-767-3800

部件名称 Part Name	有害物质 - Hazardous Substances	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
金属部件 Metal parts		×	○	○	○	○	○
塑料部件 Plastic parts		○	○	○	○	○	○
电子件 Electronic		×	○	○	○	○	○
触点 Contacts		○	○	×	○	○	○
线缆和线缆附件 Cables & cabling accessories		○	○	○	○	○	○

本表格依据 SJ/T 11364 的规定编制 This table is made according to SJ/T 11364
○: 表示该有害物质在该部件所有均质材料中的含量均在 GB/T 26572 规定的限量要求以下
○: Indicates that the concentration of hazardous substance in all of the homogeneous materials for this part is below the limit as stipulated in GB/T 26572
×: 表示该有害物质至少在该部件的某一均质材料中的含量超出 GB/T 26572 的限量要求
×: Indicates that the concentration of hazardous substance in at least one of the homogeneous materials used for this part is above the limit as stipulated in GB/T 26572