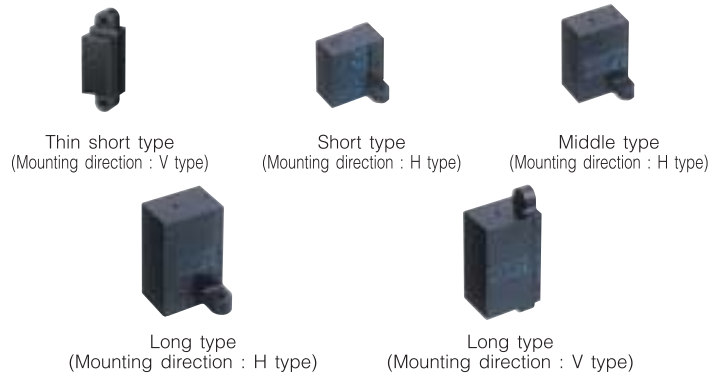


**Active infrared
(area reflective)
human detection sensor
MA MOTION SENSOR**

Discontinued



Features

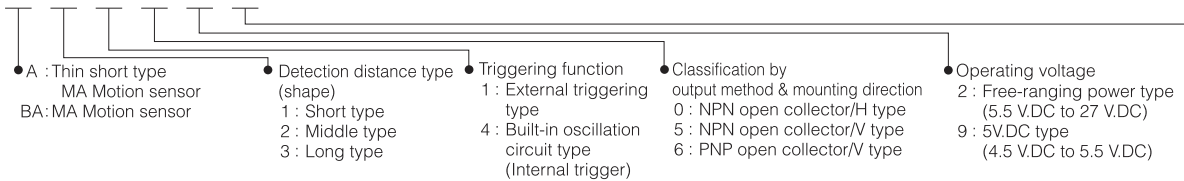
- Reliable detection hardly influenced by reflectivity of targeted objects
- Ready-to-use with DC power source (built-in oscillation circuit type)
- Capability to adjoin sensors (External triggering type)
- RoHS compliant

Typical applications

- Equipment around water: automatic lighting of wash-units, toilets, automatic flush
- Stores and financial markets: automatic doors, lighting, ATM, visitor sensors
- Amusement equipment: seating detection for pachinko machines, game displays
- Medical equipment markets: noncontact switches

Ordering information

AM



● Rated detection distance

Unit : cm inch

Part No. Type	02	03	04	05	06	07	08 (Middle type does not need 08)	09	10 (Short type does not need 10)	11	12	13	14	15	16	17	18	19	20 (Long type does not need 20)
Thin short type	—	—	—	5 1.969	—	—	—	—	10 3.937	—	—	—	—	15 5.906	—	—	—	—	—
Short type	—	—	—	5 1.969	6 2.362	7 2.756	8 3.150	9 3.543	10 3.937	—	—	—	—	—	—	—	—	—	—
Middle type	20 7.874	30 11.811	40 15.748	50 19.685	60 23.622	70 27.559	80 31.496	—	—	—	—	—	—	—	—	—	—	—	—
Long type	—	30 11.811	40 15.748	50 19.685	60 23.622	70 27.559	80 31.496	90 35.443	100 39.37	110 43.307	120 47.244	130 51.181	140 55.118	150 59.055	160 62.992	170 66.929	180 70.866	190 74.803	200 78.74

Product types

- Detection distance type (distance limited)
 - 1) Thin short type (V type)

Standard packing: Carton: 20 pcs.; Case: 200 pcs.

Operating voltage	Output method	Rated detection distance	Built-in oscillation circuit type	External triggering type
			Part No.	Part No.
4.5 V.DC to 5.5 V.DC	NPN open collector output	5 cm 1.969 inch	AMA145905	AMA115905
		10 cm 3.937 inch	AMA1459	AMA1159
		15 cm 5.906 inch	AMA145915	AMA115915
	PNP open collector output	5 cm 1.969 inch	AMA146905	AMA116905
		10 cm 3.937 inch	AMA1469	AMA1169
		15 cm 5.906 inch	AMA146915	AMA116915

Note: If using multiple sensors adjacently or reducing power consumption, contact us for the optimal external trigger type.

2) Short type (H type)

Standard packing: Carton: 20 pcs.; Case: 200 pcs.

Rated operating voltage	Rated detection distance	Mounting direction : H type	
		Short type	
		Built-in oscillation circuit type	External triggering type
		Part No.	Part No.
4.5 V.DC to 5.5 V.DC	5 cm 1.969 inch	AMBA140905	AMBA110905
	6 cm 2.362 inch	AMBA140906	AMBA110906
	7 cm 2.756 inch	AMBA140907	AMBA110907
	8 cm 3.150 inch	AMBA140908	AMBA110908
	9 cm 3.543 inch	AMBA140909	AMBA110909
	10 cm 3.937 inch	AMBA1409	AMBA1109
5.5 V.DC to 27 V.DC	5 cm 1.969 inch	AMBA140205	AMBA110205
	6 cm 2.362 inch	AMBA140206	AMBA110206
	7 cm 2.756 inch	AMBA140207	AMBA110207
	8 cm 3.150 inch	AMBA140208	AMBA110208
	9 cm 3.543 inch	AMBA140209	AMBA110209
	10 cm 3.937 inch	AMBA1402	AMBA1102

Note: If using multiple sensors adjacently or reducing power consumption, contact us for the optimal external trigger type.

3) Middle type (H type)

Standard packing: Carton: 20 pcs.; Case: 200 pcs.

Rated operating voltage	Rated detection distance	Mounting direction : H type	
		Middle type	
		Built-in oscillation circuit type	External triggering type
		Part No.	Part No.
4.5 V.DC to 5.5 V.DC	20 cm 7.874 inch	AMBA240902	AMBA210902
	30 cm 11.811 inch	AMBA240903	AMBA210903
	40 cm 15.748 inch	AMBA240904	AMBA210904
	50 cm 19.685 inch	AMBA240905	AMBA210905
	60 cm 23.622 inch	AMBA240906	AMBA210906
	70 cm 27.559 inch	AMBA240907	AMBA210907
	80 cm 31.496 inch	AMBA2409	AMBA2109
5.5 V.DC to 27 V.DC	20 cm 7.874 inch	AMBA240202	AMBA210202
	30 cm 11.811 inch	AMBA240203	AMBA210203
	40 cm 15.748 inch	AMBA240204	AMBA210204
	50 cm 19.685 inch	AMBA240205	AMBA210205
	60 cm 23.622 inch	AMBA240206	AMBA210206
	70 cm 27.559 inch	AMBA240207	AMBA210207
	80 cm 31.496 inch	AMBA2402	AMBA2102

Note: If using multiple sensors adjacently or reducing power consumption, contact us for the optimal external trigger type.