





# Door / Area Sensor

Door Sensor / Door Side Sensor / Economical Door Side Sensor /

Series	Sensing Method	Mounting Height	Light Source	Power Supply	Power Consumption	Control Output
<b>Door Sensor</b> <b>ADS-A Series</b>  W224×H60×L26mm	Diffuse Reflective Type	2.0 to 2.7m	Infrared LED (850nm modulated)	24-240VAC 24-240VDC	Max. 4VA (at 240VAC)	Relay (SPST(1a))
				12-24VAC 12-24VDC	Max. 2VA (at 24VAC)	

Series	Sensing Method	Sensing Distance	Light Source	Power Supply	Current Consumption And Power Consumption	Control Output	Sensor Mounting
<b>Door Side Sensor</b> <b>ADS-SE</b>  W77×H30×L44mm	Through-beam type	0 to 10m	Infrared LED (850nm modulated)	12-24VAC 12-24VDC	Current Consumption : Max. 2VA Power Consumption : Max. 50mA	Relay (SPST(1a))	2-CH

<b>Economical Door Side Sensor</b> <b>ADS-SE1/2</b>  W77×H24×L44mm	Through-beam type	0 to 10m	Infrared LED (850nm modulated)	12-24VAC 12-24VDC	Current Consumption : Max. 2VA Power Consumption : Max. 50mA	Relay (SPST(1a))	1-CH
							2-CH

Series	Sensing Method	Sensing Distance	Light Source	Optical Axis Pitch	Number Of Optical Axes	Sensing Height (mm)	Power Supply
<b>Picking Sensor - Plastic Case</b> <b>BWPK Series</b>  W30×H10.5×L140mm	Through-beam type (direct beam)	Long distance mode: 0.1 to 3m Short distance mode: 0.05 to 1m	Infrared LED (850nm modulated)	25mm	5	100	12-24VDC

Front Sensing Area	Left/Right Sensing Area	Environment		Protection Structure	Approval	Model
		Ambient Illumination	Ambient Temperature			
7.5°, 14.5°, 21.5°, 28.5° (4-step setting)	Eliminating each (1, 2, 3 -area), (7, 8, 9 -area)	Sunlight/ Incandescent lamp : Max. 3,000lx (receiver illumination)	-20 to 50°C	IP50	—	ADS-AF
						ADS-AE


Sensitivity Setting	Sensor Cable Length	Environment		Protection Structure	Approval	Model
		Ambient Illumination	Ambient Temperature			
Set by button	10m	Sunlight : Max. 100,000lx (receiver illumination)	-20 to 55°C	IP30	—	ADS-SE

Set by button	5m	Sunlight : Max. 100,000lx (receiver illumination)	-20 to 55°C	IP30	CE	ADS-SE1
Set by button	5m	Sunlight : Max. 100,000lx (receiver illumination)	-20 to 55°C	IP30	CE	ADS-SE2


Control Output	Control Output	Environment		Connection	Protection Structure	Approval	Model
		Ambient Illumination	Ambient Temperature				
NPN open collector	Light ON/Dark ON (set by switch)	Sunlight: Max. 10,000lx Incandescent lamp : Max. 3,000lx (receiver illumination)	-10 to 55°C	Cable type (Ø4, 2m)	IP40	CE	BWPK25-05N
PNP open collector	Light ON/Dark ON (set by switch)	Sunlight: Max. 10,000lx Incandescent lamp : Max. 3,000lx (receiver illumination)	-10 to 55°C	Cable type (Ø4, 2m)	IP40	CE	BWPK25-05P

# Door / Area Sensor


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Series	Sensing Method	Sensing Distance	Light Source	Optical Axis Pitch	Number Of Optical Axes	Sensing Height / Total Length (mm)	Power Supply
<b>Area Sensor - Plastic Case</b> <b>BWP Series</b>  W30×H13×L□mm*	Through-beam type (direct beam)	0.1 to 5m	Infrared LED (850nm modulated)	20mm	8	140 / 190	12-24VDC
					12	220 / 270	12-24VDC
					16	300 / 350	12-24VDC
					20	380 / 430	12-24VDC


\*The value of □ is total length.

<b>Cross-beam Area Sensor - Aluminium Case</b> <b>BWC Series</b>  W28.6×H22.6×L□mm*	Through-beam type (cross beam)	1 to 7m	Infrared LED (850nm modulated)	40mm	4	120 / 180	12-24VDC
					10	360 / 420	
					12	440 / 500	
					16	600 / 660	
					18	680 / 740	
			20	760 / 820			
			Infrared LED (850nm modulated)	80mm	14	1040 / 1140	

\*The value of □ is total length.

<b>Area Sensor - Aluminium Case</b> <b>BW Series</b>  W28.6×H22.6×L□mm*	Through-beam type (direct beam)	0.1 to 7m	Infrared LED (850nm modulated)	20mm	8	140 / 180	12-24VDC
					12	220 / 260	
					16	300 / 340	
					20	380 / 420	
					24	460 / 500	
					28	540 / 580	
					32	620 / 660	
					36	700 / 740	
					40	780 / 820	
					44	860 / 900	
					48	940 / 980	
					40mm	4	
				6		200 / 260	
				8		280 / 340	
				10		360 / 420	
				12		440 / 500	
				14		520 / 580	
				16		600 / 660	
				18		680 / 740	
				20		760 / 820	
				22		840 / 900	
				24		920 / 980	

\*The value of □ is total length.

Appearance	Connector Standard	Connection	Connection Method	Cable Material	Cable Length (m)	Model
<b>Connector Cable for Area Sensor BW/BWC (for emitter)</b> <b>CID Series</b> 	M12	DC 4-wire	Socket type	PVC	3	CID4-3T
					5	CID4-5T
					7	CID4-7T
					10	CID4-10T


\* Connector cable is sold separately as one set; each of emitter's and receiver's.

Control Output	Control Output	Environment		Connection	Protection Structure	Approval	Model
		Ambient Illumination	Ambient Temperature				
NPN open collector	Light ON/Dark ON (set by switch)	Sunlight: Max. 10,000lx (receiver illumination)	-10 to 55°C	Cable type (Ø3.5, 3m)	IP40	CE	BWP20-08N
PNP open collector	Light ON/Dark ON (set by switch)	Sunlight: Max. 10,000lx (receiver illumination)	-10 to 55°C	Cable type (Ø3.5, 3m)	IP40	CE	BWP20-08P
NPN open collector	Light ON/Dark ON (set by switch)	Sunlight: Max. 10,000lx (receiver illumination)	-10 to 55°C	Cable type (Ø3.5, 3m)	IP40	CE	BWP20-12N
PNP open collector	Light ON/Dark ON (set by switch)	Sunlight: Max. 10,000lx (receiver illumination)	-10 to 55°C	Cable type (Ø3.5, 3m)	IP40	CE	BWP20-12P
NPN open collector	Light ON/Dark ON (set by switch)	Sunlight: Max. 10,000lx (receiver illumination)	-10 to 55°C	Cable type (Ø3.5, 3m)	IP40	CE	BWP20-16N
PNP open collector	Light ON/Dark ON (set by switch)	Sunlight: Max. 10,000lx (receiver illumination)	-10 to 55°C	Cable type (Ø3.5, 3m)	IP40	CE	BWP20-16P
NPN open collector	Light ON/Dark ON (set by switch)	Sunlight: Max. 10,000lx (receiver illumination)	-10 to 55°C	Cable type (Ø3.5, 3m)	IP40	CE	BWP20-20N
PNP open collector	Light ON/Dark ON (set by switch)	Sunlight: Max. 10,000lx (receiver illumination)	-10 to 55°C	Cable type (Ø3.5, 3m)	IP40	CE	BWP20-20P

NPN open collector	□: Type No-mark: Light ON D: Dark ON	Ambient light : Max. 100,000lx (receiver illumination)	-10 to 55°C	Cable connector type (Ø5, 300mm, M12)	IP65	CE	BWC40-04H□
							BWC40-10H□
							BWC40-12H□
							BWC40-16H□
							BWC40-18H□
							BWC40-20H□
							BWC80-14H□

■: Type No-mark : NPN open collector P: PNP open collector	Light ON	Ambient light : Max. 10,000lx (receiver illumination)	-10 to 55°C	Cable connector type (Ø5, 300mm, M12)	IP65	CE	BW20-08■
							BW20-12■
							BW20-16■
							BW20-20■
							BW20-24■
							BW20-28■
							BW20-32■
							BW20-36■
							BW20-40■
							BW20-44■
BW20-48■							

■: Type No-mark : NPN open collector P: PNP open collector	Light ON	Ambient light : Max. 10,000lx (receiver illumination)	-10 to 55°C	Cable connector type (Ø5, 300mm, M12)	IP65	CE	BW40-04■
							BW40-06■
							BW40-08■
							BW40-10■
							BW40-12■
							BW40-14■
							BW40-16■
							BW40-18■
							BW40-20■
							BW40-22■
BW40-24■							

Appearance	Connector Standard	Connection	Connection Method	Cable Material	Cable Length (m)	Model
<b>Connector Cable for Area Sensor BW/BWC (for receiver)</b> <b>CID Series</b> 	M12	DC 4-wire	Socket type	PVC	3	CID4-3R
					5	CID4-5R
					7	CID4-7R
					10	CID4-10R