Series	Sensing Method	Mounting Height	Light Source	Power Supply	Power Consumption	Control Output	
Door Sensor ADS-A Series	Diffuse	2.0 to 2.7m	Infrared LED	24-240VAC 24-240VDC	Max. 4VA (at 240VAC)	Relay	
W224×H60×L26mm	Reflective Type	2.0 (0 2.1111	(850nm modulated)	12-24VAC 12-24VDC	Max. 2VA (at 24VAC)	(SPST(1a))	
Series	Sensing Method	Sensing Distance	Light Source	Power Supply	Current Consumption And Power Consumption	Control Output	Sensor Mounting
Door Side Sensor ADS-SE  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
Economical Door Side Sensor ADS-SE1/2  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
Picking Sensor - Plastic Case BWPK Series  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

ross-beam Area Sensor - Aluminium Case / Area Sensor - Aluminium · Plastic Case / Picking Sensor - Plastic Case					stic Case	<b>Autonics</b> Selection Guide		
Front Sensing Area	Left/Right Sensing Area	Environment Ambient Illumination	Ambient Temperature	Protection S	Structure	Approval	Model	
7.5°, 14.5°, 21.5°, 28.5°	Eliminating each (1, 2, 3 -area), (7, 8, 9 -area)	Sunlight/ Incandescent lamp : Max. 3,000lx	-20 to 50°C	IP50		_	ADS-AF	
4-step setting)	(1, 0, 9 -alea)	(receiver illumination)					ADS-AE	
Sensitivity Setting	Sensor Cable Length	Environment  Ambient Illumination	Ambient Temperature	Protection S	Structure	Approval	Model	
		Sunlight						
Set by button	10m	: Max. 100,000lx (receiver illumination)	-20 to 55℃	IP30			ADS-SE	
Set by button	5m	Sunlight : Max. 100,000lx (receiver illumination)	-20 to 55°C	IP30		C€	ADS-SE1	
Set by button	5m	Sunlight : Max. 100,000lx (receiver illumination)	-20 to 55°C	IP30		C€	ADS-SE2	
Control Output	Control Output	Environment		Connection	Protection	Approval	Model	
		Ambient Illumination	Ambient Temperature		Structure	PP1010		
		Sunlight: Max. 10,000lx						
NPN open collector	Light ON/Dark ON (set by switch)	Incandescent lamp : Max. 3,000lx (receiver illumination)	-10 to 55°C	Cable type (Ø4, 2m)	IP40	C€	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	C€	BWPK25-05P	

Series	Sensing Method	Sensing Distance	Light Source	Optical Axis Pitch	Number Of Optical Axes	Sensing Height / Total Length (mm)	Power Supply	
Area Sensor - Plastic Case BWP Series					8	140 / 190	12-24VDC	
	Through-beam type	0.1 to 5m	Infrared LED (850nm modulated)	20mm	12	220 / 270	12-24VDC	
	(direct beam)			)	16	300 / 350	12-24VDC	
W30×H13×L⊡mm <sup>®</sup>					20	380 / 430	12-24VDC	
$ imes$ The value of $\square$ is total length.								
Cross-beam Area Sensor					4	120 / 180		
- Aluminium Case BWC Series					10	360 / 420		
			Infrared LED	40	12	440 / 500	12-24VDC	
	Through-beam type	1 to 7m	(850nm modulated	40mm	16	600 / 660		
	(cross beam)				18	680 / 740		
				00.000	20	760 / 820		
₩28.6×H22.6×L□mm <sup>*</sup>			Infrared LED		14	1040 / 1140		
			(850nm modulated	80mm	14	1040 / 1140		
Area Sensor - Aluminium Cas					8	140 / 180		
BW Series	е			20mm	12	220 / 260	12-24VDC	
					16	300 / 340		
					20	380 / 420		
					24	460 / 500		
					28	540 / 580		
					32	620 / 660		
		0.1 to 7m			36	700 / 740		
					40	780 / 820		
					44	860 / 900		
	Through-beam type		Infrared LED		48	940 / 980		
	(direct beam)		(850nm modulated	)	4	120 / 180	12-24VDC	
				40mm	6	200 / 260		
Τ.					8	280 / 340		
W28.6×H22.6×L□mm <sup>*</sup>					10	360 / 420		
					12	440 / 500		
					14	520 / 580		
					16	600 / 660	_	
					18	680 / 740	_	
					20	760 / 820 840 / 900	-	
					24	920 / 980	_	
KThe value of   is total length.					- '	320 / 000		
Appearance	Connector Standard	Connection	Connection Method	Cable Material	Cable Length (m)	Model		
Connector Cable for	- Standard	DC 4-wire	Socket type	PVC	3	CID4-3T		
Area Sensor BW/BWC					5	CID4-5T		
(for emitter) CID Series	M12				7	CID4-31		
					,	CID4-71		

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CID4-10T

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

**Autonics** Selection Guide

 ${\it Cross-beam Area Sensor - Aluminium \ Case \ / \ Area Sensor - Aluminium \ \cdot \ Plastic \ Case \ / \ Picking \ Sensor - \ Plastic \ P$ 

PN open collector   Light ON/Dark ON (set by switch)   Sunlight: Max. 10.000lb; (creceiver illumination)   10 to 55°C   Cable type   P40   C	Control Output	Control Output	Environment  Ambient Illumination	Ambient Temperature	Connection	Protection Structure	Approval	Model
Proper collector   Upht OND ark ON   Sunlight Max 10,000lk   On 55°C   Cable type   Pad   C   BWP20-08P			Ambient munimation	Ambient Temperature				
Proper collector	NPN open collector			-10 to 55°C		IP40	C€	BWP20-08N
Proper collector	PNP open collector			-10 to 55°C		IP40	C€	BWP20-08P
Proper collector   Get by switch    (receiver illumination)   -10 to 55°C   (23.5, 3m)   Pr40   C   ENVPO-12P	IPN open collector		(receiver illumination)	-10 to 55°C		IP40	C€	BWP20-12N
Proper collector	NP open collector			-10 to 55°C		IP40	C€	BWP20-12P
Cable connector   Cable   Cabl	IPN open collector	(set by switch)	(receiver illumination)	-10 to 55 C		IP40	C€	BWP20-16N
Type	NP open collector	(set by switch)	(receiver illumination)	-10 to 55°C	(Ø3.5, 3m)	IP40	C€	BWP20-16P
Proper collector   Get by switch   Greceiver illumination   10 to 55°C   (23.5, 3m)     Proper collector   Get by switch   Greceiver illumination   10 to 55°C   (23.5, 3m)     Proper collector   Get by switch   Greceiver illumination   10 to 55°C   Get connector   Get by switch   Greceiver illumination   10 to 55°C   Get be connector   Get by switch   Greceiver illumination   10 to 55°C   Get be connector   Get by switch   Greceiver illumination   10 to 55°C   Get be connector   Get by switch   Get by s	PN open collector	(set by switch)	(receiver illumination)	-10 to 55°C	(Ø3.5, 3m)	IP40	CE	BWP20-20N
Section   Sect	NP open collector			-10 to 55°C		IP40	C€	BWP20-20P
PN open collector PN open collector PN open collector PNP open collec								BWC40-04H□
PN open collector								BWC40-10H□
PN open collector								BWC40-12H□
BWC40-18H   BWC40-18H   BWC40-20H   BWC40-14H   BWC40-20H   BWC40-14H   BWC40-20H   BWC40-20H   BWC40-14H   BWC40-12   BW20-12   BW20-20   BW20-	PN open collector	No-mark: Light ON	: Max. 100,000lx	-10 to 55°C	type	IP65	C€	BWC40-16H□
Type		D: Dark ON						BWC40-18H□
EType								BWC40-20H□
EType								BWC80-14H□
EType			1	I		T		
EType					connector type (Ø5, 300mm,	IP65	C€	
EType								BW20-12
Type								BW20-16
Ambient light : Max. 10,000lx (receiver illumination)  Ambient light : Max. 10,000lx (receiver illumination)  Ambient light : Max. 10,000lx (receiver illumination)  Elight ON  Ambient light : Max. 10,000lx (receiver illumination)  Elight ON  Ambient light : Max. 10,000lx (receiver illumination)  Elight ON  Ambient light : Max. 10,000lx (receiver illumination)  Elight ON  Ambient light : Max. 10,000lx (receiver illumination)  Elight ON  Ambient light : Max. 10,000lx (receiver illumination)  Elight ON  Ambient light : Max. 10,000lx (receiver illumination)  Elight ON  Ambient light : Max. 10,000lx (receiver illumination)  Elight ON  Ambient light : Max. 10,000lx (receiver illumination)  Elight ON								BW20-20
Ambient light ON  Cable connector type (05, 300mm, M12)  Cable connector type (06, 300mm, M12)  EW20-28  EW40-04  EW40-06  EW40-06  EW40-06  EW40-10  EW40-1	Type							BW20-24
Type   Cable connector   PNP open collector   PNP	o-mark	Light ON		-10 to 55°C				BW/20-28■
M12)   BW20-36   BW20-40   BW20-44   BW20-44   BW20-48   BW20-48   BW40-04   BW40-06   BW40-06   BW40-06   BW40-06   BW40-06   BW40-10   BW40-10   BW40-10   BW40-10   BW40-10   BW40-10   BW40-10   BW40-10   BW40-10   BW40-16   BW40-20   BW40-20   BW40-22				-10 10 33 C				
BW20-40   BW20-44   BW20-44   BW20-44   BW20-44   BW20-44   BW20-48   BW40-04   BW40-06   BW40-06   BW40-08   BW40-08   BW40-12   BW40-12   BW40-12   BW40-14   BW40-14   BW40-14   BW40-16   BW40-16   BW40-16   BW40-18   BW40-20   BW40-20   BW40-20   BW40-22   BW40	FINE Open collector							
BW20-44   BW20-44   BW20-48   BW20-48   BW40-04   BW40-04   BW40-06   BW40-06   BW40-06   BW40-10   BW40-10   BW40-12   BW40-12   BW40-14   BW40-14   BW40-14   BW40-14   BW40-14   BW40-18   BW40-18   BW40-18   BW40-20   BW40-22   BW40								BW20-36
BW20-48   BW40-04   BW40-06   BW40-06   BW40-06   BW40-10   BW40-10   BW40-12   BW40-12   BW40-14   BW40-14   BW40-14   BW40-18   BW40-18   BW40-18   BW40-20   BW40								BW20-40
Type -mark PN open collector PNP open collector								BW20-44 <b>■</b>
Type -mark PN open collector PNP open collector BW40-14 BW40-16 BW40-20 BW40-20 BW40-22 BW40-22								BW20-48
Type -mark PN open collector PNP open collector BW40-14 BW40-16 BW40-20 BW40-20 BW40-22 BW40-22								BW40-04
Typemark PN open collector PNP open collector P				-10 to 55°C		IP65		
Type -mark PN open collector PNP open collector								
Typemark PN open collector PNP open collector P	■: Type No-mark : NPN open collector P: PNP open collector	Light ON						BW40-08
Type -mark PN open collector PNP open collector PN					Cable			BW40-10 <b>■</b>
Light ON  India K  I			Ambient light					BW40-12 <b>■</b>
(receiver illumination)  (receiver illumination)  (receiver illumination)  (receiver illumination)  (receiver illumination)  BW40-16  BW40-18  BW40-20  BW40-22  BW40-22							C€	BW40-14
M12)  BW40-18  BW40-20  BW40-22  BW40-22  BW40-22			(receiver illumination)					BW40-16■
BW40-20 <b>■</b> BW40-22 <b>■</b>					1 '			
BW40-22 <b>■</b>								
								BW40-20
BW40-24 <b>■</b>								BW40-22
								BW40-24

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