NEW PRODUCTS



OBSTACLE DETECTION SENSOR

PBS series

WIDE SCANNING ANGLE! SUPER-SMALL SIZE!

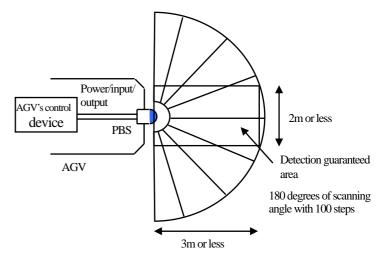


General/Feature

- * This was 60% smaller than PB9 about cubic volume. Scanning angle(Detection area) is increased to 180 degrees and detectable dead zone is getting smaller.
- * Operation principle is that semicircular field is scanned by LED(lambda = 880nm) and the coordinates is calculated by measuring distance to object and its step angle and then it detects obstacle in setting area.
- * Detection area can be set by PC(RS-232C).

 Detection distance with 3 steps output for each area can be set.
- * Changeover for Max. 15 kinds of detection area set by PC can be made by outer bit input.

Structure(**Light scanning image**)



Connection

Colors	Signals	Colors	Signals
Black	Output 1	Purple	Input 3
White	Output 2	White(Yellow)	Input 4
White(Blue)	Output 3	Brown	+ VIN
Orange	Trouble output	Blue	- VIN
Gray	Output common minus	Yellow(Red)	Serial input (RXD)
Red	Input common plus	Yellow(Green)	Serial output(TXD)
Green	Input 1	Yellow(Black)	Serial GND
Yellow	Input 2		

PBS series



Specifications

Model No.	PBS series	
Power source	24VDC(Allowable range 18 to 30VDC including ripple)	
Current consumption	250mA or less(100mA or less when emission stops)	
Detectable object and	White kent paper with 300 by 300mm(Placed in parallel with sensor projection surface), 0	
detection area *1	m by 2m and width 2m(Origin point is scanning center position)	
Hysteresis	10% or less of detection distance	
Output *2(Output 1 to	Photo-coupler/NPN open-collector output(30VDC 50mA or less)	
3, trouble output)		
Input(Input 1 to 4)	Photo-coupler input(Anode common, each input current 4mA or more), This changes setting	
	detection area.	
Output response time	180msec or less(Scanning speed 1 rev./100msec)	
	280msec or less when using interference misjudge avoidance mode(Except for 100msec, area	
	changeover time)	
Lamps	Power lamp(Green): Flickered when trouble	
	Output 1, 2 and 3 lamp(Orange): Lit when detected in area	
Connection method	Lead wire 1m long	
Ambient temperature/	-10 to +50 degrees C, 85%RH or less(Not dew-drop and frozen)	
humidity		
Protective structure	IP64	

^{*1} Within 180 degrees, scanning angle *2 Output logic and output 3 function are depending on types *3 Output 3 lamp is depending on types

External dimension

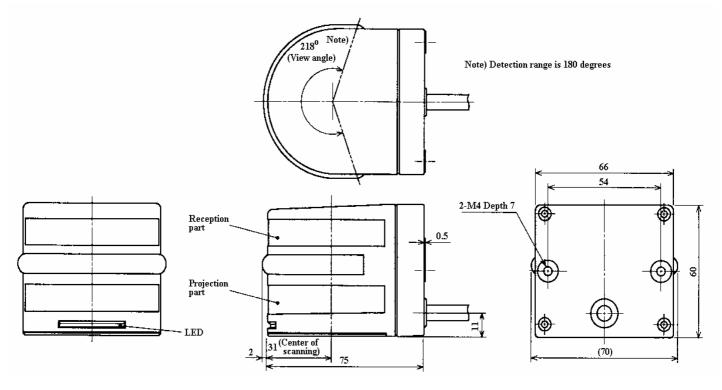


PHOTO SENSOR, LASER SENSOR, MICROWAVE SENSOR, COUNTER, AUTOMATIC DOOR



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