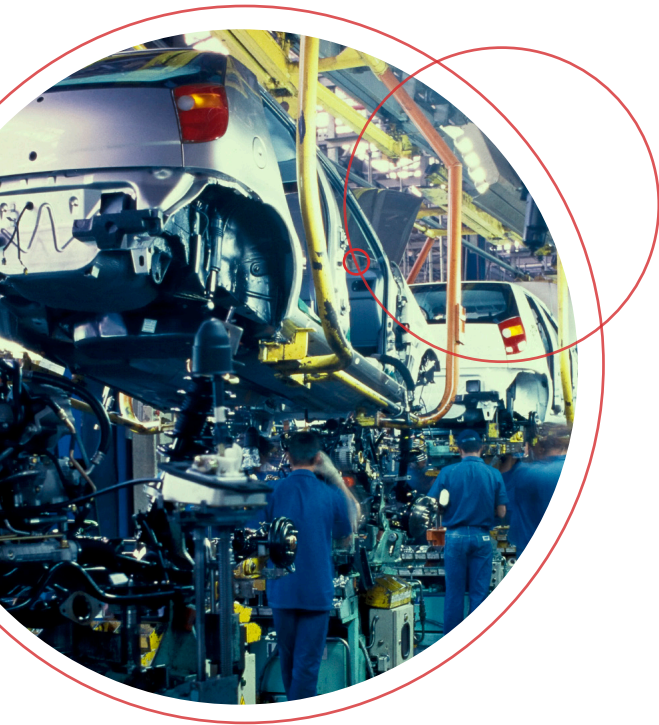


HOKUYO

PBS-03JN

OBSTACLE DETECTOR



Obstacle detection for
autonomous vehicles.

3 metre range

180° scan window

1.8° resolution

15 programmable detection areas

SENTEK
solutions

Contained in an ultra compact housing the PBS-03JN from Hokuyo is a fully featured standalone obstacle detector ideal for all forms of autonomous vehicle. Detection areas can be pre-programmed via a PC and uploaded to the sensor. The desired detection area and switching points can be selected by I/O. This device is specifically used for scanning the path in front of an AGV or AGC ensuring the protection and safety of equipment from impacts and accidents which may reduce productivity.

Model Number

PBS-03JN

Range	3m	
Scan window	100°	
Power source	24VDC (Allowable range 18 to 30VDC including ripple)	
Current consumption	250mA or less (100mA or less when emission stops)	
Light source	Infra-red LED (wave length 880nm)	
Detectable object	300x300mm white sheet	
Detecting range	0.2 to 3x2m	
Beam diameter	Approx \varnothing 100m (at 3m)	
Area setting	Output 1	Free to set with pointer (max 7 points) (possible to set from 0 to 6m for optical axis direction)
	Output 2, 3	Linear setting to progressive direction, fan-shaped setting to optical axis direction. Percentage setting against 1 pointer
Hysteresis	10% or less of detecting distance (not smaller than 60mm)	
Output	Photo-coupler/ open-collector output (30VDC, 50mA) Output 1, 2, 3: OFF when detected in area Trouble output: ON during normal operation	
Output response time	180msec or less (scanning speed: 1 rev/100msec) 2-scanning operation mode: 280msec or less (excl. for 100msec, area changeover time)	
Input	Photo-coupler input (Anode common, each input current 4mA or more), changover of setting area	
Input response time	Input taking-in cycle: 1 scanning time (100msec)	
Connection	Cable 1m	
Case materials	Front case: polycarbonate, rear case: ABS resin	
Protective structure	IP64	
Weight	500g	

For more information:

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