

## PARALLEL TYPE OPTICAL DATA TRANSMISSION DEVICE LIGHT WEIGHT AND COMPACT SIZE

# **DMS** series

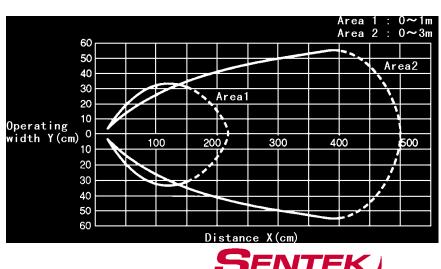
- \*This device is parallel type, data transmission device with infrared ray.
- \*It is suitable for data transmission such as interlocking with carrier robots, indicating destination of AGV's.
- \*This device provides projection amount adjuster and so area adjustment can be made by it.



**Specifications** 

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Туре	Parallel type(4 bits)				Parallel type(8 bits)			
Model No.	DMS-GA1-V	DMS-GA2-V	DMS-HA1-V	DMS-HA2-V	DMS-GB1-V	DMS-GB2-V	DMS-HB1-V	DMS-HB2-V
Direction	HEAD-ON		SIDE-ON		HEAD-ON		SIDE-ON	
Transmission distance	0 to 1m	0 to 3m	0 to 1m	0 to 3m	0 to 1m	0 to 3m	0 to 1m	0 to 3m
Directional angle (Full angle)	30 degrees	10 degrees	30 degrees	10 degrees	30 degrees	10 degrees	30 degrees	10 degrees
Transmission method	Half-duplex two-way transmission							
Transmission time	40msec or less							
Modulation method	Pulse modulation							
<b>Detection method</b>	Parity check							
Power source	24VDC(10 to 30VDC)							
Input	Contact or contactless open-collector(ON current 2.5mA or more, OFF current 1mA or less, Operating threshold current 1.5 to 2mA)							
Output	NPN open-collector(35VDC, 50mA or less, Residual voltage 1.8V or less)							
Current consumption	100mA Max.							
Ambient illuminance	4,000lux or less(Incandescent lamp)							
Ambient temperature/ humidity	-10 to +50 degrees C, 85%RH or less							
Vibration resistance	Double amplitude 1.5mm, 10 to 30Hz, each 2 hour in X, Y and Z directions							
Impact resistance	500m/s <sup>2</sup> , each 10 time in X, Y and Z directions							
Connection	Lead wire 2m long							
Protective structure	IP64							

### Transmission area(Typical example)

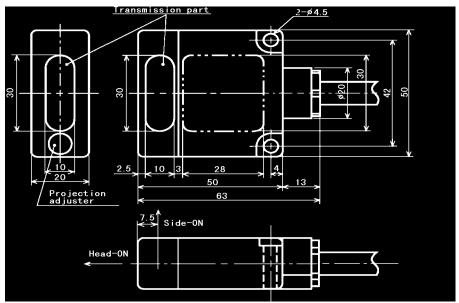




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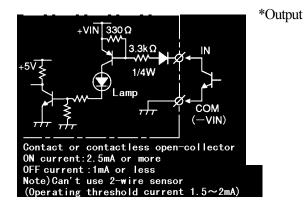


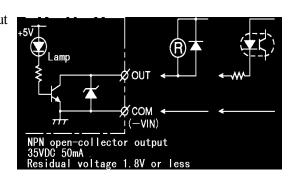
#### **External dimension**



### Input/output circuit

\*Input







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