

NEW PRODUCT

OPTICAL DATA TRANSMISSION DEVICE

DMF-G/HB

Features

- Parallel I/O
- High-speed transmission, 7ms
- Short transmission start delay time, 11ms
- Long transmission distance, 6m
- Used FSK modulation for interference avoidance
- 10 points each for Input and Output

Applications

- Optical data transmission in material handling industry
- Communication and control with Stacker crane, AGV and OHT

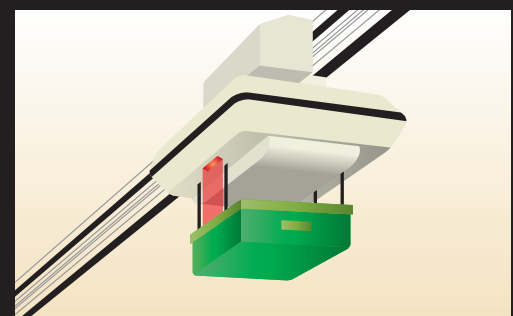
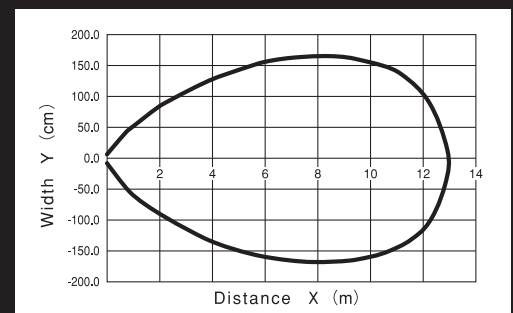


Specifications

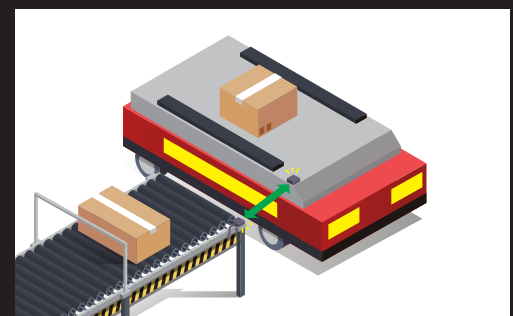
Part No.	DMF-06GBA	DMF-06GBB	DMF-06HBA	DMF-06HBB
Transmission distance	Head-on		Side-on	
Transmission distance	6m (available to adjust distance by light-projection amount adjuster)			
Directional angle	10° full angle			
Power source	DC24V(±10%)			
Consumption current	50mA max.			
Transmission method	Full-duplex two-way transmission			
Transmission speed	7ms max.			
Modulated method	FSK			
Modulation frequency	Projection 5.5MHz	Projection 6.5MHz	Projection 5.5MHz	Projection 6.5MHz
	Receiving 6.5MHz	Receiving 5.5MHz	Receiving 6.5MHz	Receiving 5.5MHz
Connection	JST connector part No. S26B-PUDSS-1			
Modulated method	Direct modulation			
Weight	200g			
Ambient temperature/ Humidity	-10 to 50°C / 85%RH or less (not frozen)			
Ambient illuminance	10000lux or less			
Impact resistance	490m/S ² , Each 10 times in X, Y and Z directions			
Vibration resistance	Double amplitude 1.5mm, 10 ~ 55Hz, each 2 hours in X, Y and Z directions			
Protective structure	IP40			
Indication lamp	POWER (POW), IN1 to 10, OUT1 to 10, Go, LEVEL(LV) (LEVEL : light-receiving margin level 1.2 times)			
Input	IN1 to 10, SELECT, Contact or non-contact open-collector (ON current 2.5mA or more, OFF current 1mA or less Operation threshold current 1.5 to 2mA)			
Output	OUT1 to 10, GO, STB NPN open-collector (30VDC, 50mA, residual voltage 1.8V or less)			

Note : A and B must work together as a pair.

System structure



● Communication of job data between OHT and Equipment



● Communication for destination and job data between AGV and Station