

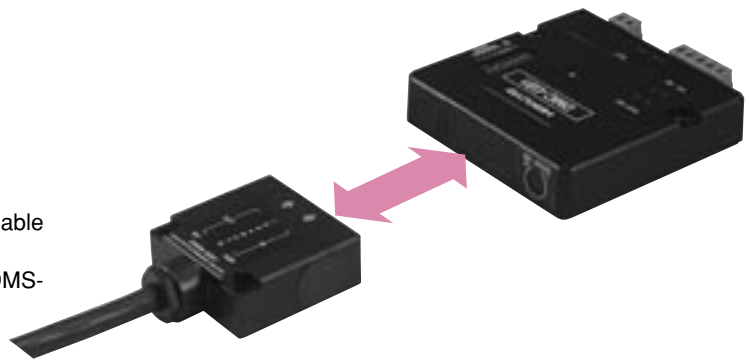
Optical Data Transmission Device for DeviceNet

DMC-GB1 / HB1

Connectable to PLC for DeviceNet

This device is 8bit optical data transmission device which is able to connect to PLC for DeviceNet.

- This is able to optical communication with parallel type DMS-G/HB & DMG-G/HB.
- Connector system.
- Max. 63 pcs can be connected to 1 master unit.

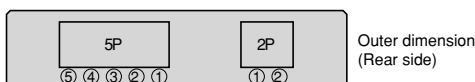


Specifications

Type	Parallel type	
Model	DMC-GB1	DMC-HB1
Power source	24VDC(15%, -10%, Ripple 0.5Vp-p or less)	
Current consumption	PLC: 40mA or less, Equipment: 50mA or less(at 24VDC)	
Transmission capacity	Input 8 points/output 8 points(Selected by dip switch·GO transmission is available)	
Address setting	Each setting by dip switch	
Connection	Connector: 5 pins for PLC, 2 pins(for other power source)	
Optical communication	Direction	Head-on / Side-on
	Transmission distance	0.6m*
	Directional angle	Total 30°
	Transmission method	Half duplex two-way transmission
	Transmission time	40msec
	Modulation method	Pulse modulation
PLC	Detection method	Parity check
	Connection type	Multi-drop type
	Communication speed	500kbit/250kbit/125kbit/sec(Changeover by switch)
	Communication cycle time	12.2ms(Connection Nos. 32 pcs at communication speed, 500kbit/s)
	Communication media	Exclusive cable 5-wire(Signal 2, power 2, shield 1)
	Communication distance	Communication speed : 500kbit/sec, 250kbit/sec, 125kbit/sec Max.network length: 100m or less, 250m or less, 500m or less Feeder line : 6m or less, 6m or less, 6m or less Total feeder line : 39m or less, 78m or less, 156m or less
Max. Nos.of connection node	64 pcs(including master unit, max. connectable slave 63 pcs)	
Ambient illuminance	4,000lux(Halogen lamp, incandescent lamp)	
Protective structure	IP40(IEC Standard)	
Case	Cover: Polycarbonate, Base/cable cover: ABS resin	
Weight	Approx. 110g	

*3m cable is also available.

Connection



5P side(PLC)

Colors	Signals	Functions	Position
Red	+24V	Power	①
White	Can+	Signal	②
Shield	Shield	—	③
Blue	Can-	Signal	④
Black	+0V	Power	⑤

2P side(Equipment power source)

Colors	Signals	Functions	Position
—	+24V	Power	①
—	+0V	Power	②

Note) Make a wiring not to be affected by noise or surge and also, don't make a wiring with main circuit and high voltage line.

External dimensions

