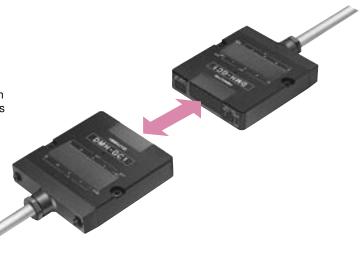
Optical Data Transmission Device

DMH-GC/HC

DMH-GCHC is a high speed type data transmission device with 16 bit. This is smaller size and lighter weight than usual models and also, adjuster for beam amount is provided.

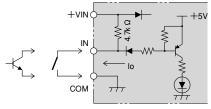


■ Specifications

Туре	Parallel type		
Model	DMH-GC1	DMH-HC1	
Direction	Head-on	Side-on	
Transmission distance	0 to 3m(Setting distance can be changed by adjuster)		
Directional angle	±13°		
Transmission capacity	16BIT		
Transmission method	Half duplex two-way transmission		
Transmission time	15msec		
Modulation method	FSK modulation		
Detection method	Bit-reverse comparing system		
Power source	18V to 30VDC (ripple 10% or less)		
Current consumption	150mA or less		
Ambient illuminance	10,000lux or less		
Ambient temperature/humidity	-10°C to +50°C, 85%RH or less		
Connection	Lead wire (0.125mm ² 40 cores shield wire in 2m)		
Protective structure	IP64 (IEC Standard)		
Case material	Cover: Polycarbonate, base/cable cover: ABS resin		
Weight	Approx. 400g		

■ Input/Output circuit

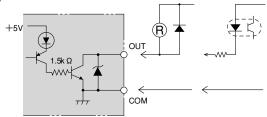
Input section



Flow current(lo) when ON: approx. 5mA (when 24VDC) ON voltage: 2V or less, OFF voltage: 8V or more.

★D-sub connector type is lined-up too.

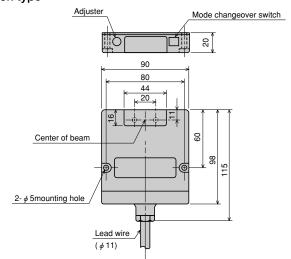
Output section



NPN open-collector output. 35 VDC 50m A Residual voltage 0.9V or less.

■ External dimensions

Head-on type Side-on type 2- ϕ 5mounting hole Adjuster 16 Center of beam 8 8 44 8 Lead wire $(\phi 11)$ Mode changeover switch 60 98 115

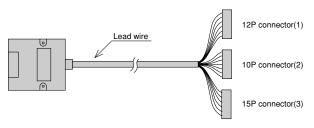


*Mode changeover switch: If one is set to T side(transmission pr

iority mode), other one have to be set to R side(reception prio

rity mdoe).

Connection



Connector(1)				
Lead wire(Mark)	Pin No.	Spec.		
Pink(Red1)	1	Power +V		
Pink(Red2)	2	Power -V(COM)		
Pink(Red3)	3	OUT16		
Pink(Red4)	4	IN1		
Pink(Black1)	5	OUT15		
Pink(Black2)	6	IN15		
Pink(Black3)	7	OUT14		
Pink(Black4)	8	IN14		
Light blue(Red1)	9	OUT13		
Light blue(Red2)	10	IN13		
Light blue(Red3)	11	OUT12		
Light blue(Red4)	12	IN12		

Connector(2)					
Lead wire(Mark)	Pin No.	Spec.			
Light blue(Black1)	1	OUT11			
Light blue(Black2)	2	IN11			
Light blue(Black3)	3	OUT10			
Gray(Red1)	4	IN10			
Gray(Red2)	5	OUT9			
Gray(Red3)	6	IN9			
Gray(Red4)	7	IN8			
Gray(Black1)	8	OUT8			
Gray(Black2)	9	IN7			
Gray(Black3)	10	OUT7			

Connector(3)					
Lead wire(Mark)	Pin No.	Spec.			
Orange(Red1)	1	IN6			
Orange(Red2)	2	OUT6			
Orange(Red3)	3	IN5			
Orange(Red4)	4	OUT5			
Orange(Black1)	5	IN4			
Orange(Black2)	6	OUT4			
Orange(Black3)	7	IN3			
Orange(Black4)	8	OUT3			
Green(Red1)	9	IN2			
Green(Red2)	10	OUT2			
Green(Red3)	11	IN1			
Green(Red4)	12	OUT1			
Green(Black1)	13	SELECT*1			
Green(Black2)	14	GO*2			
Green(Black3)	15	Strobe*3			

Note) Don't use light blue(Black4), gray(black4) and green(blac Note) The connector attached can't be used as relay terminals.

- - This is designed to arbitrarily stop transmission and reception
 - It operates when it is opened between Select and GND.
 It stops the operation when it is shorted between Select and GN
- *2. GO output
 This is designed to check for correct reception of optical sign
 - It is getting ON when optical signal is received.

 It is getting OFF when optical signal is interrupted(non-received).

It is getting ON when data is fixed.

k4). If cable is cut on the way, cut it at the base.

by outside signal.

D.

al.

ing state).