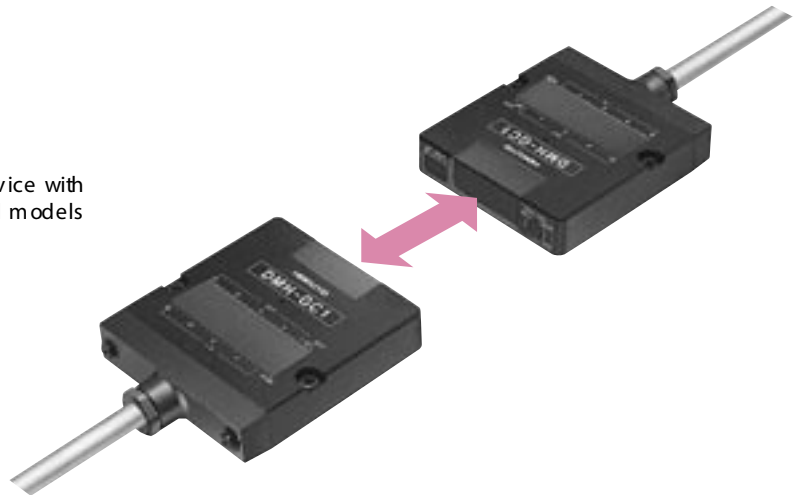


DMH-GC/HC

DMH-GC/HC 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.

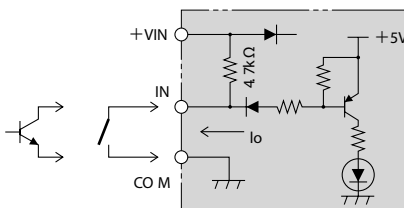


Specifications

Type	Parallel type	
	DMH-GC1	DMH-HC1
Model	DMH-GC1	DMH-HC1
Direction	Head-on	Side-on
Transmission distance	0 to 3m(Setting distance can be changed by adjuster)	
Directional angle	$\pm 13^\circ$	
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 1.0% or less)	
Current consumption	150mA or less	
Ambient illuminance	10,000lux or less	
Ambient temperature/humidity	-10 to +50, 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	

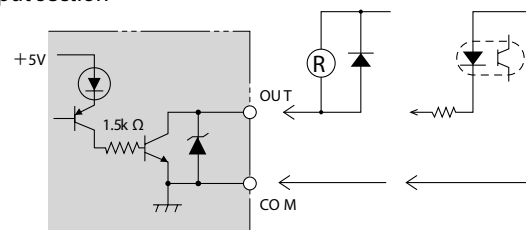
Input/Output circuit

Input section



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

Output section

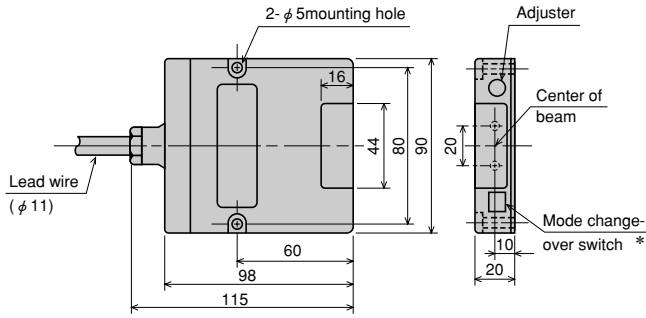


NPN open-collector output.
35 VDC 50mA Residual voltage 0.9V or less.

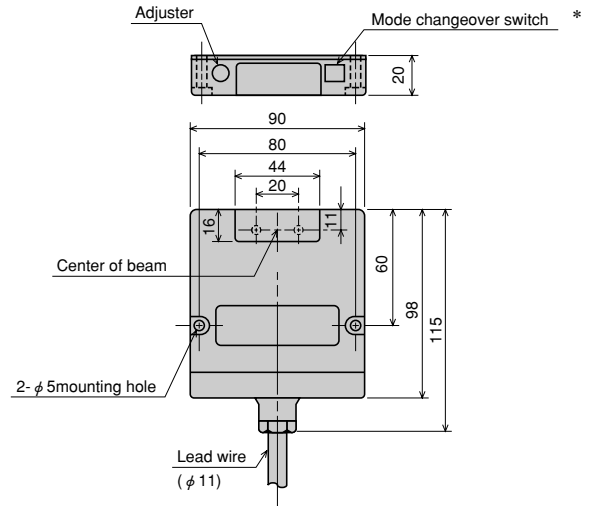
D-sub connector type is lined-up too.

External dimensions

Head-on type

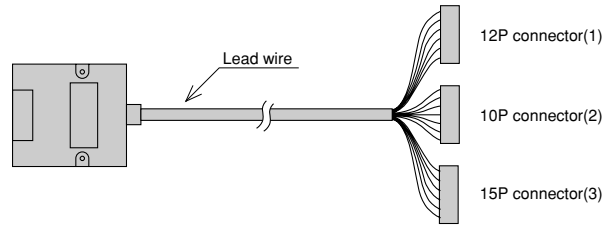


Side-on type



* Mode changeover switch: If one is set to T side(transmission priority mode), other one have to be set to R side(reception priority mode).

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(Black4). If cable is cut on the way, cut it at the base.
 Note) The connector attached can't be used as relay terminals.

- *1. Select input
 This is designed to arbitrarily stop transmission and reception by outside signal.
 ● It operates when it is opened between Select and GND.
 ● It stops the operation when it is shorted between Select and GND.
- *2. GO output
 This is designed to check for correct reception of optical signal.
 ● It is getting ON when optical signal is received.
 ● It is getting OFF when optical signal is interrupted(non-receiving state).
- *3. Strobe
 It is getting ON when data is fixed.