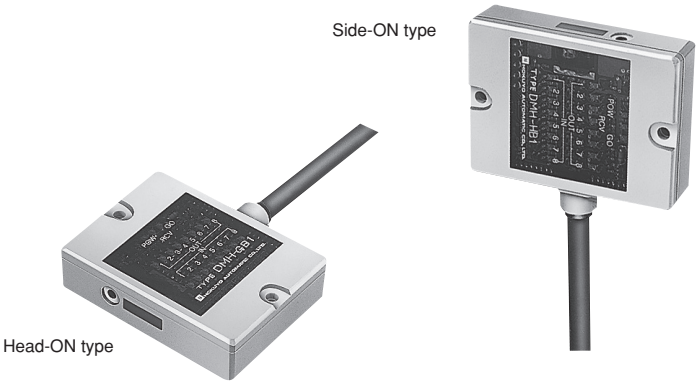
DMH-GB/HB

DMH series is a DMS-G/H series with high-speed communcation. This is approx. 5 times faster than DMS-G/H series and can communicate more data in specific time.

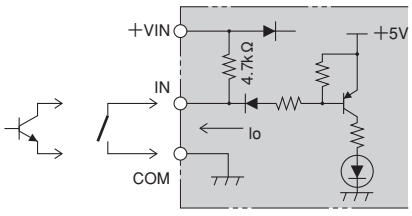


■ Specifications

Type	Parallel type			
Model No.	DMH-GB1	DMH-GB2	DMH-HB1	DMH-GHB2
Direction	Head-on		Side-on	
Transmission distance	0.6m	3m	0.5m	3m
Directional angle (full angle)	±15°	±5°	±15°	±5°
Transmission capacity	8BIT			
Transmission method	Half duplex two-way transmission			
Transmission time	7msec			
Modulation method	FSK modulation			
Detection method	bit-reverse comparing system			
Power source	18 to 30VDC (ripple 10% or less)			
Current consumption	100mA or less			
Input	Contact input			
Output	NPN Open-collector output			
Connection	Cable (0.2mm² 23 cores shield wire in 2m)			
Ambient illuminance	10,000lux or less			
Ambient temperature/humidity	-10 to +50°C, 85%RH or less (not icing, not condensing)			
Vibration resistance	Double amplitude 1.5mm, 10 to 55Hz, each 2 hour in X, Y and Z directions			
Impact resistance	500m/s², each 10 time in X, Y and Z directions			
Protective structure	IP64 (IEC Standard)			
Case material	ABS resin (Display: acryl resin)			
Weight	Approx. 2850g			

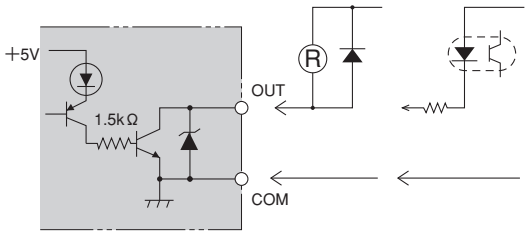
■ Input/Output circuit

Input section



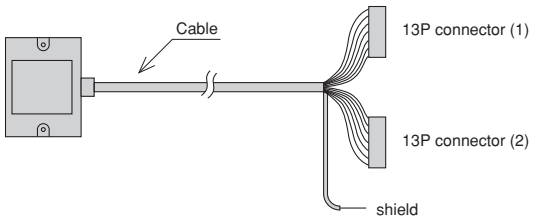
Flow current (Io) when ON: approx. 5mA (When 24VDC)
Allowable residual voltage: Use with 1.8V or less.

Output section



NPN open-collector output
35VDC 50mA or less Residual voltage 1.5V or less.

■ Connection



Connector (1)		
Lead wire	Pin No.	Spec.
Light blue	1	Power 0V
Pink	2	Power +V
White	3	IN1
White/Black	4	IN2
Brown	5	IN3
Brown/Black	6	IN4
Red	7	IN5
Red/Black	8	IN6
Orange	9	IN7
Orange/Black	10	IN8
Yellow	11	MODE*1
Yellow/Black	12	COM (0V)
Green	13	SELECT*2

Connector (2)		
Lead wire	Pin No.	Spec.
Green/Black	1	GO*3
Blue	2	Strobe*4
———	3	———
Purple	4	OUT8
Purple/Black	5	OUT7
Gray	6	OUT6
Gray/Black	7	OUT5
Pink/Black	8	OUT4
L.Blue/Black	9	OUT3
Pink/Red	10	OUT2
Yellow/Red	11	OUT1
———	12	———
———	13	———
Shield	Shield	

*1. Mode input
This is designed to select standby transmission and reception mode.
- Transmission standby mode when it is opened between MODE and I/O COM.
- Reception standby mode when it is short circuited between MODE and I/O COM.

*2. Select input
This is designed to arbitrarily stop transmission and reception operation by outside signal.
- Operates when it is opened between SELECT and I/O COM.
- Stops operation when it is short curcuited between SELECT and I/O COM.

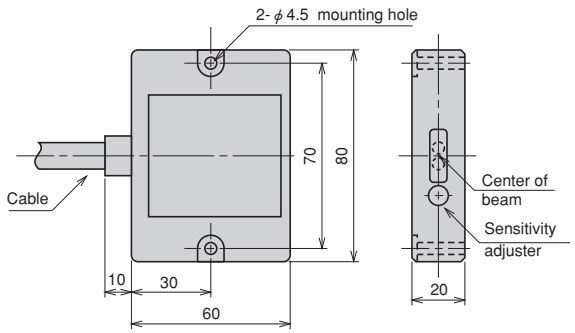
*3. GO output
This is designed to check for correct reception of optical signal.
- It is ON when optical signal is received.
- It is OFF when optical signal is interrupted (or non-receiving state).

*4. Strobe
It is getting ON when data is fixed.

Note) The connector attached can't be used as relay terminal.

■ External dimensions

Head-on type



Side-on type