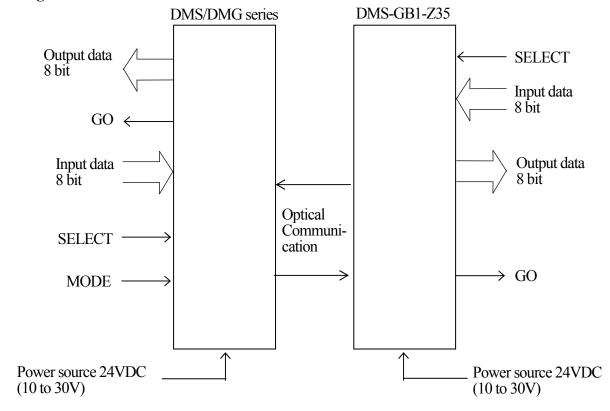
								Jul.7th'09
		,	SPECIFIC	CATION	NS			
			DMS-G	B1-Z35	5			
			(with IF	R filter)				
		TICAL DA						
		TH PROJE D-SUB CO						
	L		TION ST					
Symbol		Amended	reason		Pages	Date	Corrector	Amended No.
Approved by	Checked by	Drawn by	Designed by	Title	(	Optical Data  DMS-GB1-2	Transmissio	n Device
			HINO	Drawing No.		C-42-370		fications 1/5

#### 1. General

This is a 8-bit type data transmission device with countermeasures against disturbance light. Characteristics against disturbance light is improved because optical filer(IR-82) is attached to inner optical cover and light with 820nm or less of wavelength is shut out.

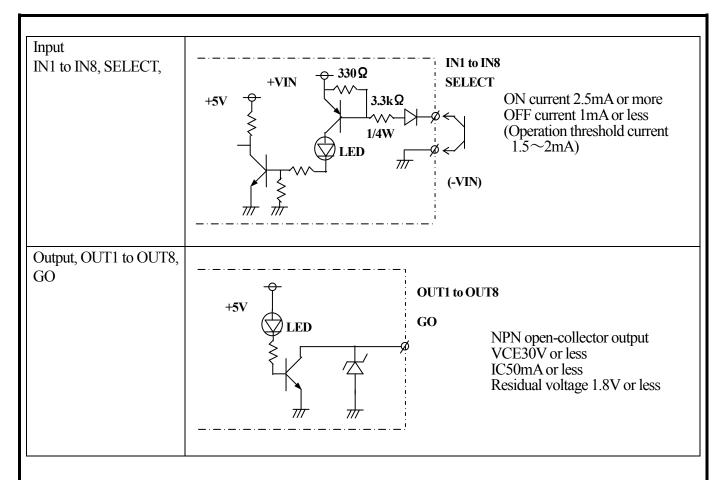
# 2. Configuration



3. Specifications

DMS-GB1-Z35		
1.0m(Changeable by adjuster)		
30 degrees(Full angle)		
HEAD-ON		
8 bits/8 bits		
Half-duplex two-way transmission		
40msec		
Pulse modulation		
Parity check		
24VDC(10~30V)		
100mA Max.		
4,000lux or less		
-10∼50°C/85%RH or less		
Double amplitude 1.5mm, 10 to 55Hz, Each 2 hour in X, Y and Z directions		
500m/s <sup>2</sup> Each 10 times in X, Y and Z directions		
D-sub connector with 25 pins		
IP64(excluding the connector)		

Title	Optical Data Transmission Device	Drawing	C-42-3704	2/5
	DMS-GB1-Z35 Specifications	No.	C-42-3704	2/3

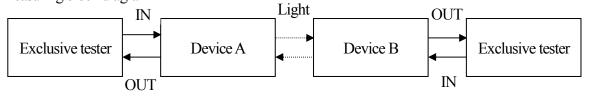


### 4. Transmission characteristics

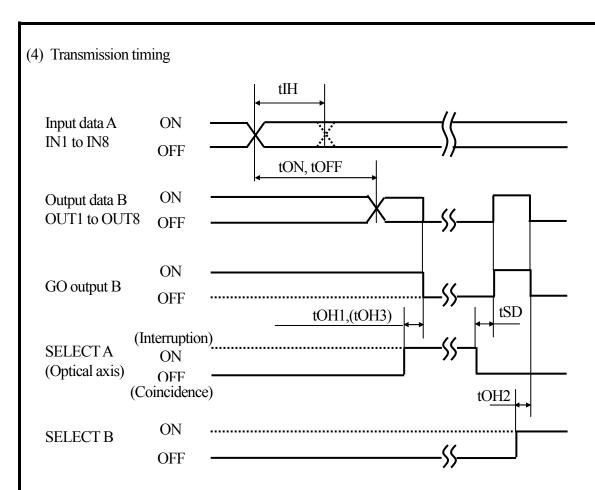
(1) Characteristics data Unit(msec)

Items	Symbols	MIN	MAX
Input data holding time	tIH	30	-
Transmission time	tON, tOFF	13	40
Transmission starting delay time	tSD	30	110
(Against optical axis coincidence)	ISD	30	
Output holding time(Against SELECTA)	tOH1	50	90
Output holding time(Against SELECT B)	tOH2	- 1	5
Output holding time(Against light-interruption)	tOH3	50	90

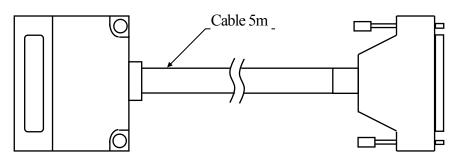
- (2) Characteristics measuring condition
  - \*Mode: Side A Reception stand-by mode, Side B Transmission stand-by mode
  - \*It was measured under input(side A) and output(side B).
- (3) Measuring block diagram



Title	Optical Data Transmission Device	Drawing	C 42 2704	2/5
	DMS-GB1-Z35 Specifications	No.	C-42-3704	3/3



# 5. External wiring



D-sub 25 pins connector (Male) Plug JBC-25P-3 Hood XM2S-2511 Contact J-SP2140 Locking screw XM2Z-0073 (Inch screw #4-40UNC)

Colors	Pin No.	Functions
Bronw	1	IN1
Red	2	IN2
Orange	3	IN3
Yellow	4	IN4
Green	5	IN5
Blue	6	IN6
Purple	7	IN7
Gray	8	IN8
White	10	SELECT
	11	
White/black	12	GO

Colors	Pin No.	Functions
Brown/black	14	OUT1
Red/black	15	OUT2
Orange/black	16	OUT3
Yellow/black	17	OUT4
Green/black	18	OUT5
Blue/black	19	OUT6
Purple/black	20	OUT7
Gray/black	21	OUT8
Pink/black	23	+VIN
-	22	+VIN
Pale blue/black Pink	24	-VIN
Pale blue	25	COM

Pin No.22 is connected to pin No.23 inside.

Title	Optical Data Transmission Device	Drawing	C-42-3704	1/5
	DMS-GB1-Z35 Specifications	No.	C-42-3704	4/5

# 5. Function for each terminal Functions **Terminals** IN1 to IN8 Input data OUT1 to OUT8 Output data It is shorted to COM: Transmission/reception is stopped SELECT It is opened: Transmission/reception is operated It is fixed to reception standby mode **MODE** It is ON when normal data was received and OFF when light was interrupted GO Common for input/output **COM** +VIN +24V(10 to 30V) Power source -VIN 0VNote) Make sure to set other one to transmission standby mode. Optical Data Transmission Device Drawing 5/5 C-42-3704 Title DMS-GB1-Z35 Specifications No.