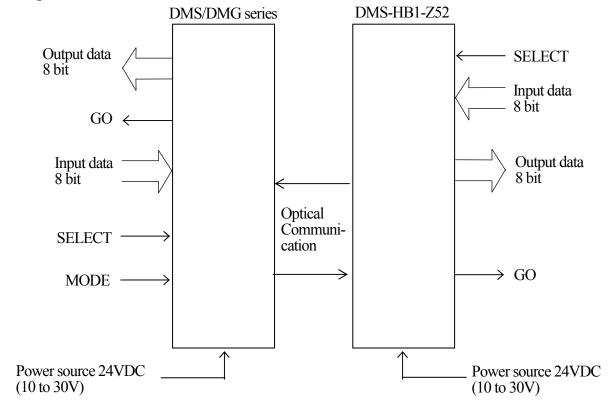
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			SPECIFIC	CATION	15			
			DMS-H	R1_ 75 2)			
			(with IF		-			
	OPT	CICAL DA	ATA TRAI	,	SION	DEVI	CE	
			ECTING A					
			ONNECT					
		(RECEP	TION ST	ANDB	Y MC	DDE)		
								<u> </u>
Symbol	Class 1 11	Amended	1	1	Pages	Date	Corrector	Amended No.
Approved by	Checked by	Drawn by	Designed by	Title		Optical Data DMS-HB1-2		n Device fications
			IGUCHI	Drawing No.		C-42-415		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.

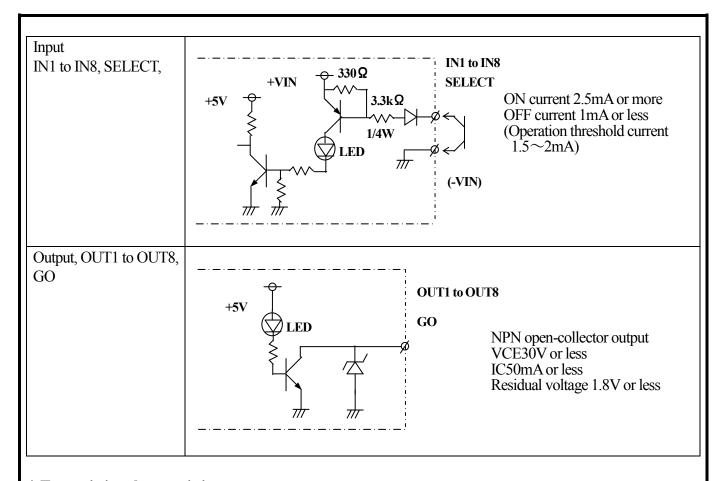
2. Configuration



3. Specifications

Model No.	DMS-HB1-Z52
Transmission distance	1.0m(Changeable by adjuster)
Directive angle	30 degrees(Full angle)
Transmission directions	SIDE-ON
Transmission capacity (Input/Output)	8 bits/8 bits
Transmission method	Half-duplex two-way transmission
Transmission time	40msec
Modulation method	Pulse modulation
Verification method	Parity check
Power source	24VDC(10~30V)
Current consumption	100mA Max.
Ambient illuminance	4,000lux or less
Ambient temperature/ humidity	-10∼50°C/ 85%RH or less
Vibration resistance	Double amplitude 1.5mm, 10 to 55Hz, Each 2 hour in X, Y and Z directions
Impact resistance	500m/s ² Each 10 times in X, Y and Z directions
Connection	D-sub connector with 25 pins
Protective structure	IP64(excluding the connector)

Title	Optical Data Transmission Device	Drawing	C-42-4154	2/5
	DMS-HB1-Z52 Specifications	No.	C-42-4134	2/3

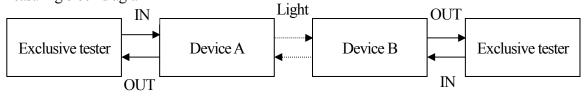


4. Transmission characteristics

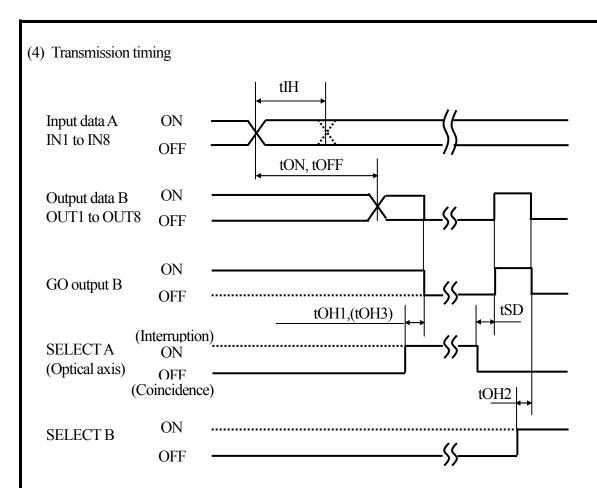
(1) Characteristics data Unit(msec)

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)	เรษ	30	110
Output holding time(Against SELECT A)	tOH1	50	90
Output holding time(Against SELECT B)	tOH2	- 1	5
Output holding time(Against light-interruption)	tOH3	50	90

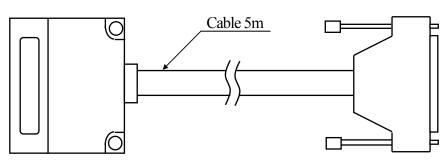
- (2) Characteristics measuring condition
 - *Mode: Side A Reception stand-by mode, Side B Transmission stand-by mode
 - *It was measured under input(side A) and output(side B).
- (3) Measuring block diagram



Title	Optical Data Transmission Device	Drawing	C 42 4154	2/5
Tiue	DMS-HB1-Z52 Specifications	No.	C-42-4134	3/3



5. External wiring



D-sub 25 pins connector (Male) Plug JBC-25P-3 Hood XM2S-2511 Contact J-SP2140 Inch Screw XM2Z-0073

Colors	Pin No.	Functions
Brown	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-42-4154	1/5
Tiuc	DMS-HB1-Z52 Specifications	No.	C-42-4134	4/3

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5.Function for each terminal

Terminals	Functions		
IN1 to IN8	Input data		
OUT1 to OUT8	Output o	lata	
SELECT	It is shorted to COM: Transmission/reception is stopped		
SELECT	It is opened: Transmission/reception is operated		
MODE	It is fixed to reception standby mode		
GO	It is ON when normal data was received and OFF when light was interrupted		
COM	Common for input/output		
+VIN	+24V(10 to 30V)	Dower gourge	
-VIN	0V	Power source	

Note) Make sure to set other one to transmission standby mode.

Title	Optical Data Transmission Device	Drawing C-42-4154		5/5
Tiuc	DMS-HB1-Z52 Specifications	No.	C-42-4134	3/3

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