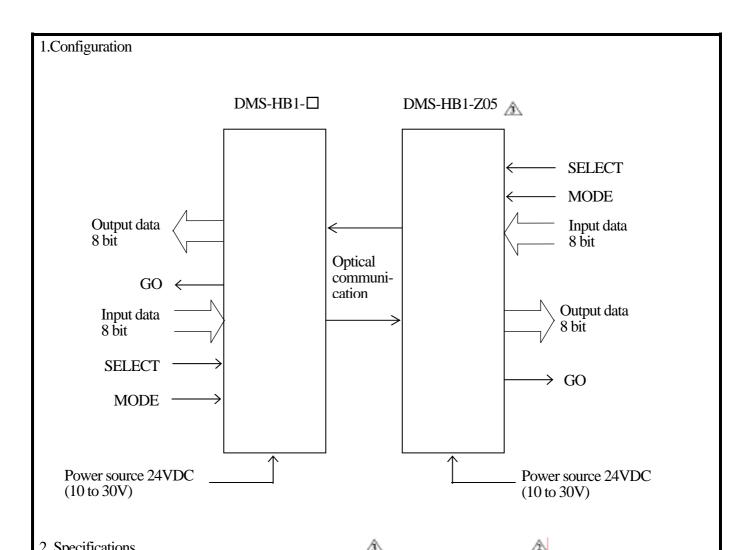
SPECIFICATIONS OPTICAL DATA TRANSMISSION DEVICE (WITH D-SUB CONNECTOR CABLE 5M LONG) A DMS-HB1-Z05(WDMS021) CORRESPONDING TO SEMI

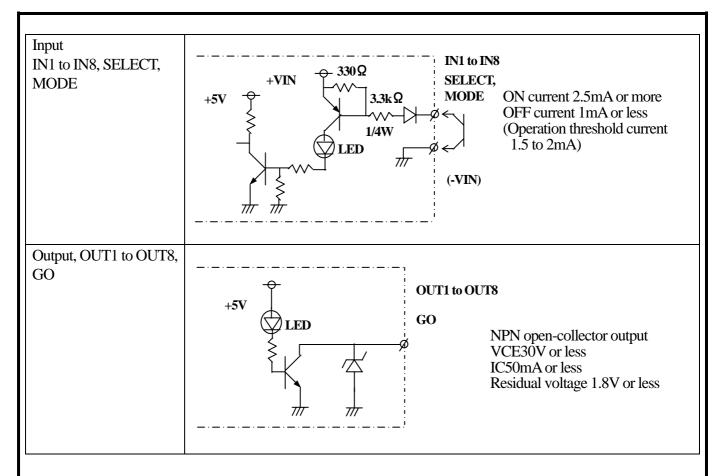
Corresponding to SI unit

<u></u> ★ ×3	Model No. chang	ged			1, 2	Apr.12'02	Hoshino	FA4575
$\mathbb{A} \times 2$	Addition of produ	acts code No.			1, 2	Dec.7'00	Hoshino	FA4091
$\Lambda \times 1$	Renewal of SEM	I standard(Change	of pin arrangemen	t)	4	Jun.26'00	Hoshino	FA3899
Symbol		Amended	reason		Pages	Date	Corrector	Amended No.
Approved by	Checked by	Drawn by	Designed by	Title	C	Optical Data	Transmissio	n Device
				Tiue]	DMS-HB1-2	Z05 Specif	fications
MAEJIMA	KITADA	HOSHINO	HOSHINO	Drawing No.		C-42-296	66	1/5



2. Specifications	AS AS
Model No.	DMS-HB1-Z(WDMS021)
Transmission distance	0 to 1.0m(Changeable by adjuster)
Directive angle	30 degrees(Full angle)
Transmission directions	SIDE-ON
Transmission capacity (Input/Output)	8 bit/8 bit
Transmission method	Half-duplex two-way transmission
Transmission time	40msec
Modulation method	Pulse modulation
Verification method	Parity check
Power source	24VDC(10 to 30V)
Current consumption	100mA Max.
Ambient illuminance	4,000lux or less
Ambient temperature/ humidity	-10 to 50 degrees C/85%RH or less
Vibration resistance	Double amplitude 1.5mm, 10 to 30Hz, 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 25 pins
Protective structure	IP64(Except for connector part)

Title	Optical Data Transmission Device	Drawing	C 42 2066	2/5
Tiue	DMS-HB1-Z05 Specifications	No.	C-42-2900	2/3

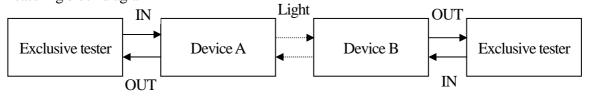


3. Transmission characteristics

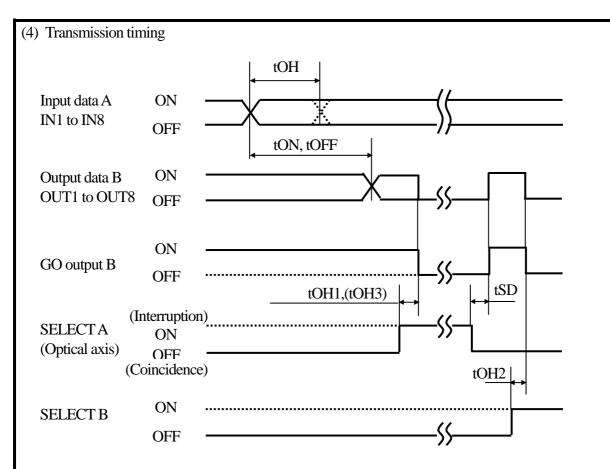
(1) Characteristics data Unit(msec)

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)	(SD	30	110
Output holding time(Against SELECTA)	tOH1	50	90
Output holding time(Against SELECT B)	tOH2	-	5
Output holding time(Against light-interruption)	tOH3	50	90

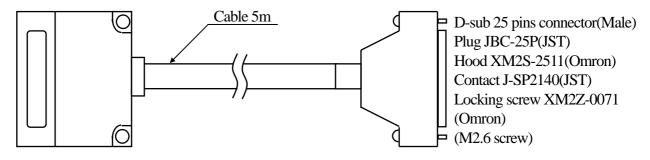
- (2) Characteristics measuring condition
 - *Mode: Side A Reception stand-by mode, Side B Transmission stand-by mode
 - *It was measured under input(side A) and output(side B).
- (3) Measuring block diagram



Titlo	Optical Data Transmission Device	Drawing	C 42 2066	2/5
Title	DMS-HB1-Z05 Specifications	No.	C-42-2900	3/3



4. External wiring



Colors	Pin No.	Functions	Colors	Pin No.	Functions
Brown	1	IN1	Brown/Black	14	OUT1
Red	2	IN2	Red/Black	15	OUT2
Orange	3	IN3	Orange/Black	16	OUT3
Yellow	4	IN4	Yellow/Black	17	OUT4
Green	5	IN5	Green/Black	18	OUT5
Blue	6	IN6	Blue/Black	19	OUT6
Purple	7	IN7	Purple/Black	20	OUT7
Gray	8	IN8	Gray/Black	21	OUT8
White	10	SELECT	Pink/Black	23	+VIN
Pink	11	MODE		22	+VIN
White/black	12	GO	Pale blue/Black	24	-VIN
	•		Pale blue	25	COM

Shorted between 22 and 23 Λ

Title	Optical Data Transmission Device	Drawing	C-42-2966	1/5
Tiue	DMS-HB1-Z05 Specifications	No.	C-42-2900	4/5

Terminals IN1 to IN 8		Functions		
		Input data		
OUT1 to OUT8		Output da		
	It is shorted to COM: Transmi			
SELECT	It is shorted to COM: Transmission/rec			
	It is opened: Transmission star			
MODE	It is shorted to COM: Reception		de	
GO			OFF when light was interrupted	
COM		Common for input/output		
+VIN	+24V(10 to 30V)			
-VIN	0V		Power source	
ote) Make sure to s	et other one to reception standby mod	de.		