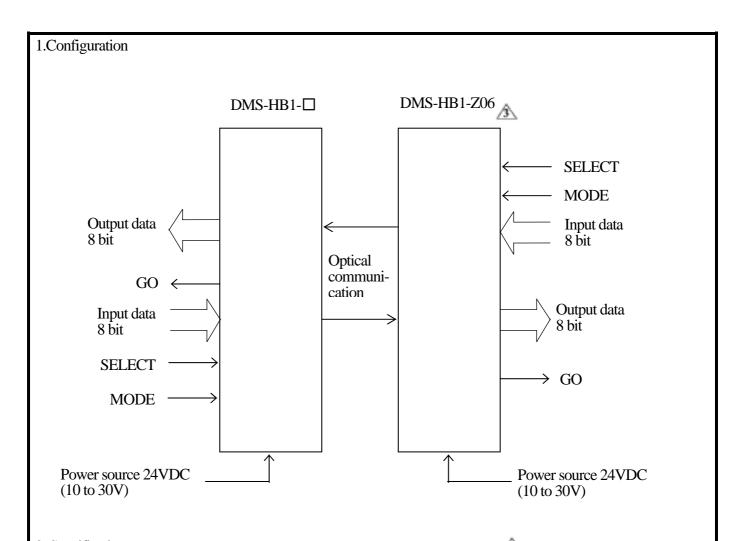
## SPECIFICATIONS OPTICAL DATA TRANSMISSION DEVICE (WITH D-SUB CONNECTOR CABLE 2M LONG) DMS-HB1-Z06 A CORRESPONDING TO SEMI

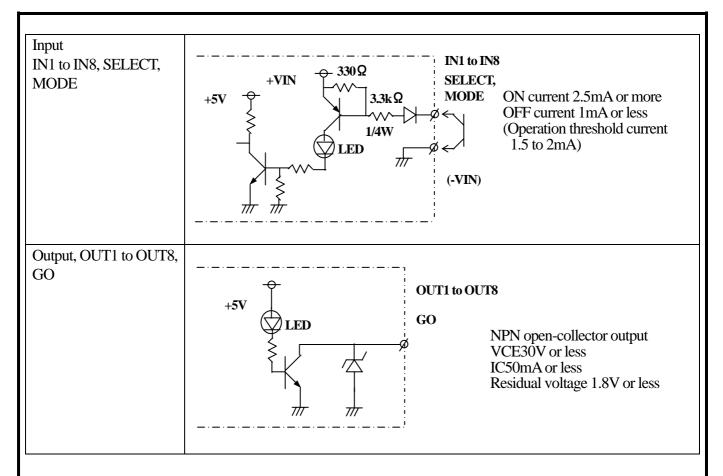
## Corresponding to SI unit

<u></u> <b>∧</b> ×3	Model No. chang	ged			1, 2	May.14'02	Hoshino	FA4600
$\triangle$ $\times$ 2	Addition of produ	acts code No.			1, 2	Dec.7'00	Hoshino	FA4091
<u></u>	Renewal of SEM	I standard(Change	of pin arrangemen	t)	4	Jun.26'00	Hoshino	FA3899
Symbol		Amended 1	reason		Pages	Date	Corrector	Amended No.
Approved by	Checked by	Drawn by	Designed by	Title	C	Optical Data	Transmissio	n Device
				Title	]	DMS-HB1-2	Z06 Specif	fications
MAEJIMA	KITADA	HOSHINO	HOSHINO	Drawing No.		C-42-296	55	1/5



2. Specifications	<u>\$\)</u>
Model No.	DMS-HB1-Z06
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 <sup>2</sup> 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-42-2965	2/5
Tiue	DMS-HB1-Z06 Specifications	No.	C-42-2903	2/3

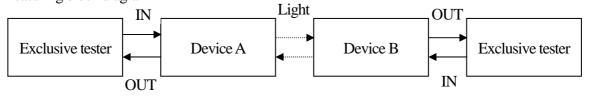


## 3. Transmission characteristics

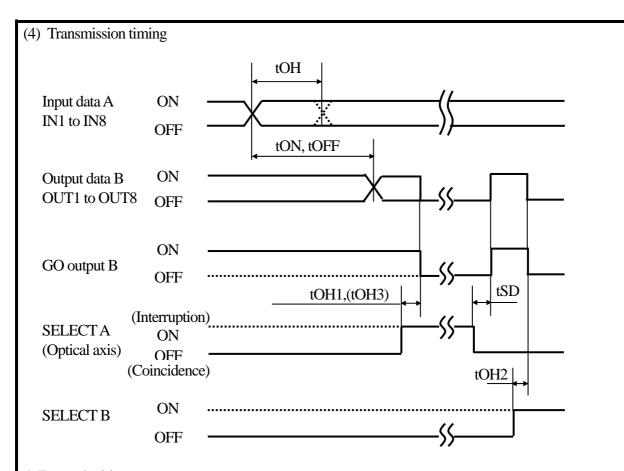
(1) Characteristics data Unit(msec)

(1) Characteristics data			Cint(Hibec)
Items	Symbols	MIN	MAX
Input data holding time	tIH	30	-
Transmission time	tON, tOFF	13	40
Transmission starting delay time (Against optical axis coincidence)	tSD	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

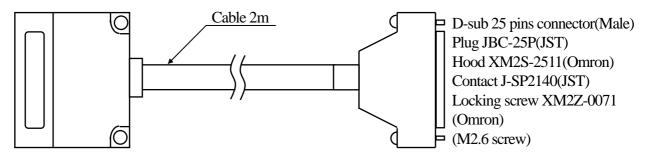
- (2) Characteristics measuring condition
  - \*Mode: Side A Reception stand-by mode, Side B Transmission stand-by mode
  - \*It was measured under input(side A) and output(side B).
- (3) Measuring block diagram



Titlo	Optical Data Transmission Device	Drawing	C 42 2065	2/5
Title	DMS-HB1-Z06 Specifications	No.	C-42-2903	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 🛝

Title	Optical Data Transmission Device	Drawing	C-42-2965	1/5
Tiue	DMS-HB1-Z06 Specifications	No.	C-42-2903	4/5

nction for each term Terminals		Function	ons
IN1 to IN 8		Input d	
OUT1 to OUT8		Output	
	It is shorted to COM: Trans		
SELECT	It is opened: Transmission/r		
MODE	It is opened: Transmission s		
MODE	It is shorted to COM: Recep		node
GO			nd OFF when light was interrupted
COM		Common for in	
+VIN	+24V(10 to 30V	7)	Power source
-VIN	0V		Power source