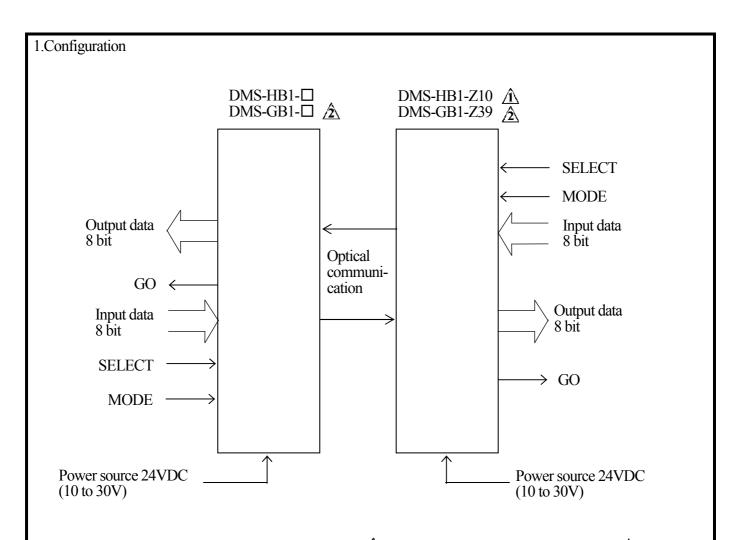
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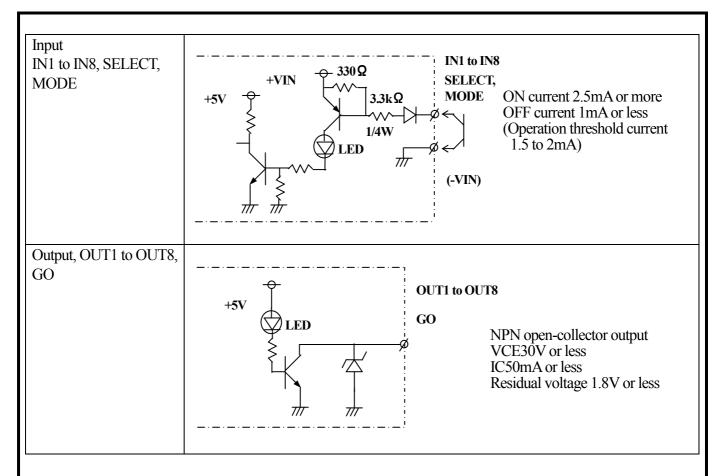
SPECIFICATIONS OPTICAL DATA TRANSMISSION DEVICE (WITH D-SUB CONNECTOR CABLE 2M LONG) DMS-HB1-Z10 A DMS-GB1-Z39 A CORRESPONDING TO SEMI E84-1000

Corresponding to SI unit $\triangle \times 5$ Change of adding model No. Apr.28'10 FA6521 1, 2 Iguchi $\Lambda \times 3$ Model No. changed 1, 2 Jun.5'02 Hoshino FA4620 Symbol Amended reason Pages Date Corrector Amended No. Approved by Checked by Drawn by Designed by Optical Data Transmission Device Title DMS-HB1-Z10/DMS-GB1-Z39 Specifications MAEJIMA **KITADA HOSHINO HOSHINO** Drawing C-42-3042 1/5 No.



2. Specifications	Â	<u> </u>
Model No.	DMS-HB1-Z10	DMS-GB1-Z39
Transmission distance	0 to 1.0m(Change	eable by adjuster)
Directive angle	30 degrees(
Transmission directions	SIDE-ON	HEAD-ON 🖄
Transmission capacity (Input/Output)	8 bit/	'8 bit
Transmission method	Half-duplex two-	way transmission
Transmission time	40m	nsec
Modulation method	Pulse mo	odulation
Verification method	Parity	check
Power source	24VDC(1	0 to 30V)
Current consumption	100mA	A Max.
Ambient illuminance	4,000lux	x 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 conne	ector 25 pins
Protective structure	IP64(Except for	connector part)

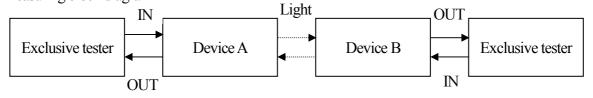
Title	Optical Data Transmission Device	Drawing	C-42-3042	2/5
Tiue	DMS-HB1-Z10/DMS-GB1-Z39 Specifications	No.	C-42-3042	2/3



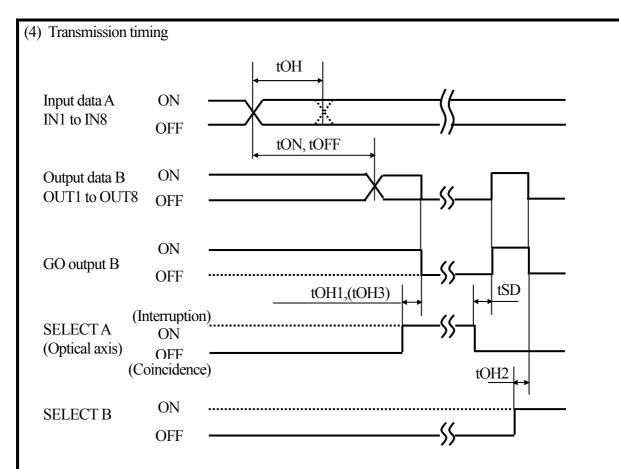
3. Transmission characteristics

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

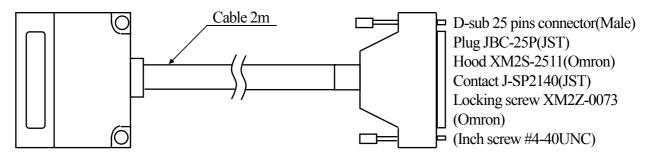
- (2) Characteristics measuring condition
 - *Mode: Side A Reception stand-by mode, Side B Transmission stand-by mode
 - *It was measured under input(side A) and output(side B).
- (3) Measuring block diagram



Title	Optical Data Transmission Device	Drawing	C-42-3042	2/5
Tiue	DMS-HB1-Z10/DMS-GB1-Z39 Specifications	No.	C-42-3042	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-42-3042	1/5
Tiue	DMS-HB1-Z10/DMS-GB1-Z39 Specifications	No.	C-42-3042	4/5

	or each termin	1al 	Functions	
	o IN 8		Input data	
	to OUT8		Output data	
		It is shorted to COM: Tra		
SEI	ECT	It is opened : Transmission		
2.17	DDE	It is opened : Transmission		
MC	ODE	It is shorted to COM: Re		2
(Ю			FF when light was interrupted
C	OM		Common for input	output/
	VIN	+24V(10 to 3	30V)	Power source
	/IN	0V ther one to reception standby		1 OWEI SOUICE

No.

DMS-HB1-Z10/DMS-GB1-Z39 Specifications