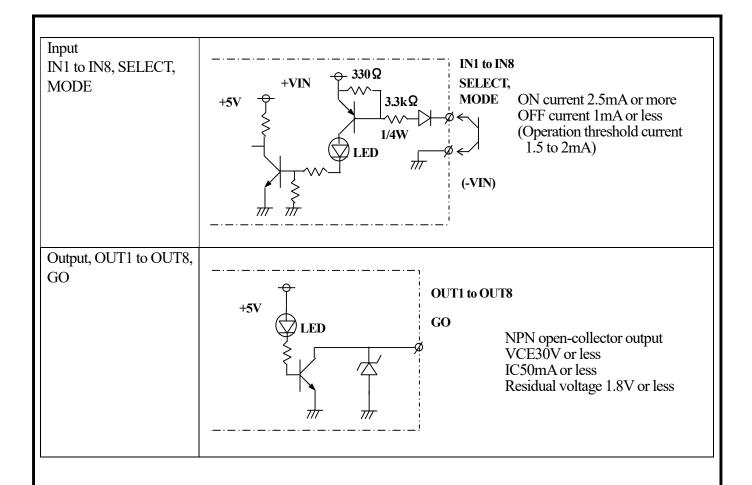
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		TH PROJE						
	1	O-SUB CO	JINNECT		JADL	LL 31VI)		
Symbol		Amended	reason		Pages	Date	Corrector	Amended No.
Approved by	Checked by	Drawn by	Designed by	Title	C	Optical Data DMS-GB1-	Transmissio	n Device fications
МАЕЛМА	KITADA	HOSHINO	HOSHINO	Drawing No.		C-42-30:	_	1/5

1.Configuration DMS-GB1-□ DMS-GB1-Z07 **SELECT MODE** Output data 8 bit Input data 8 bit Optical Communi-GO € cation Output data Input data 8 bit 8 bit **SELECT** \rightarrow GO MODE Power source 24VDC (10 to 30V) Power source 24VDC (10 to 30V)

2. Specifications

1	
Model No.	DMS-GB1-Z07
Transmission distance	1.0m(Changeable by adjuster)
Directive angle	30 degrees(Full angle)
Transmission directions	HEAD-ON
Transmission capacity	8-bit/8-bit
(Input/Output)	8-01/8-01
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/	-10 to 50°C/ 85%RH or less
humidity	-10 to 30 C/ 63/01(11 of icss
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 with 25 pins
Protective structure	IP64 (excluding the connector)
-	

Title	Optical Data Transmission Device	Drawing	C 42 2052	2/5
	DMS-GB1-Z07 Specifications	No.	C-42-3033	2/3



3. Transmission characteristics

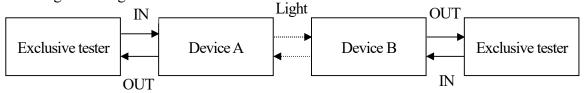
(1) Characteristics data			Unit(msec)
Items	Symbols	MIN	MAX
Input data holding time	tIH	30	-
Transmission time	tON, tOFF	13	40
Transmission starting delay time	tSD	30	110
(Against optical axis coincidence)	toD	30	110
Output holding time(Against SELECTA)	tOH1	50	90
Output holding time(Against SELECT B)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

(2) Characteristics measuring condition

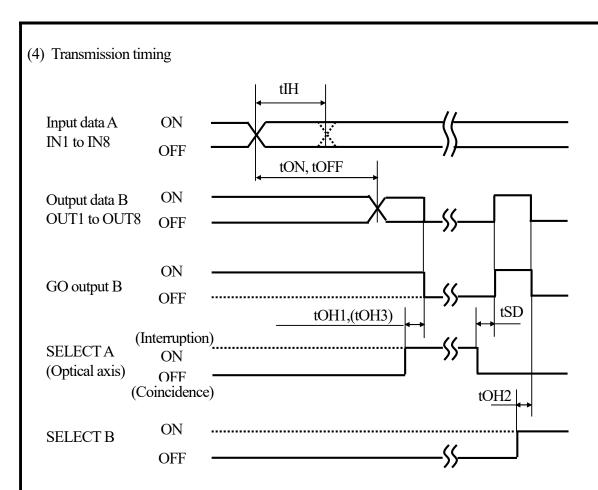
*Mode: Side A – Reception stand-by mode, Side B – Transmission stand-by mode

*It was measured under input (side A) and output (side B).

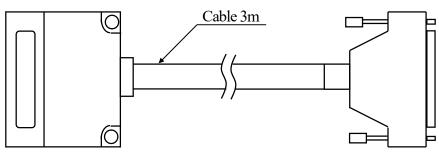
(3) Measuring block diagram



Title	Optical Data Transmission Device	Drawing	C 42 2052	2/5
Tiue	DMS-GB1-Z07 Specifications	No.	C-42-3033	3/3



4. External wiring



D-sub 25 pins connector(Female) Socket JBC-25S Hood XM2S-2511(Omron) Contact J-SS2340(JST)

Colors	Pin No.	Functions
Brown/black	1	OUT1
Red/black	2	OUT2
Orange/black	3	OUT3
Yellow/black	4	OUT4
Green/black	5	OUT5
Blue/black	6	OUT6
Purple/black	7	OUT7
Gray/black	8	OUT8
White	9	SELECT
White/black	13	GO
Shield	Hood	SHIELD

Colors	Pin No.	Functions
Brown	14	IN1
Red	15	IN2
Orange	16	IN3
Yellow	17	IN4
Green	18	IN5
Blue	19	IN6
Purple	20	IN7
Gray	21	IN8
Pink/Black	22	+VIN
Pale blue	24	COM
Pink	25	MODE
Pale blue/black	23	-VIN

Title	Optical Data Transmission Device	Drawing	C 42 2052	1/5
Tiue	DMS-GB1-Z07 Specifications	No.	C-42-3033	4/3

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 opened: Transmission standby mode **MODE** It is shorted to COM: Reception standby mode It is ON when normal data was received and OFF when light was interrupted GO **COM** Common for input/output +VIN +24V(10 to 30V) Power source -VIN 0VNote) This device is set to reception standby mode. Make sure to set other one to transmission standby mode. Optical Data Transmission Device Drawing C-42-3053 Title 5/5

No.

DMS-GB1-Z07

Specifications