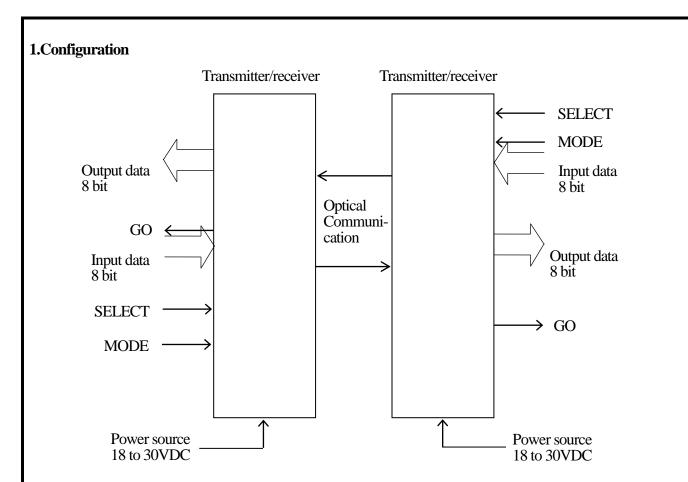
								Jul.3rd'07
	OPT	TICAL DA	ATA TRAI	NSMIS	SION	DEVI	CE	
		,			ıc			
			SPECIFIC	AHOľ	N 5			
			DMS-G	B1-Z98	3			
		(HEA	AD-ON, P	NP OU	TPU	Γ)		
△ ×3	Correction of Tra	nsmission Distance	e, Input/Output circ	cuit diagram	2, 3	Feb.2'22	Tabata	FA-8630
Symbol		Amended		<u> </u>	Pages	Date	Corrector	Amended No.
Approved by	Checked by	Drawn by	Designed by	Title	(Optical Data DMS-GB1-	Transmissio	
KAMITANI	IGUCHI	TABATA	HAYASHIYA	Drawing No.		C-42-350		1/5

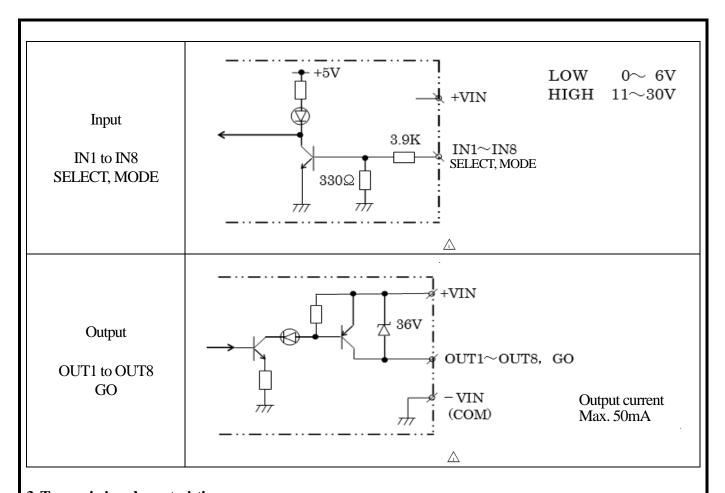
HOKUYO AUTOMATIC CO.,LTD.



2. Specifications

2. Specifications				
Model No.	DMS-GB1-Z98			
Transmission distance	0 to 1.0m (Adjustable by the adjuster) \triangle			
Directive angle	$\pm 15^{\circ}$			
Transmission directions	HEAD-ON			
Transmission capacity	8-bit / 8-bit			
(Input/Output)	8-UII / 8-UII			
Transmission method	Half-duplex two-way transmission			
Transmission time	40msec			
Modulation method	Pulse modulation			
Verification method	Parity check			
Power source	24VDC (18 to 30V available) Ripple 5% or less			
Current consumption	100mA Max. (550m Max. when connecting load)			
Ambient illuminance	4,000lux or less			
Ambient temperature/	-10 to 50°C/ 85%RH or less			
humidity	-10 to 30 C/ 83/0KH of less			
Vibration resistance	Double amplitude 1.5mm, 10 to 30Hz, Each 2 hours in X, Y and Z directions			
Impact resistance	500m/s ² Each 10 times in X, Y and Z directions			
Connection	Cable type (0.2mm ² , 22-core shield cable)			
Protective structure	IP64			

Title	Optical Data Transmission Device	Drawing	C-42-3560	2/5
	DMS-GB1-Z98 Specifications	No.	C-42-3300	2/3



3. Transmission characteristics

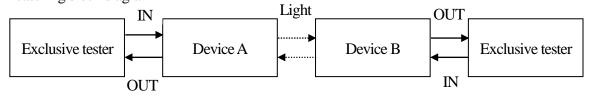
(1)	Characteristics data	
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(1) Characteristics data		Unit(msec)		
Items	Symbols	MIN	MAX	
Input data holding time	tIH	30	-	
Transmission time	tON, tOFF	13	40	
Transmission starting delay time	tSD	30	110	
(Against optical axis coincidence)	เมิ	30	110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

(2) Characteristics measuring condition

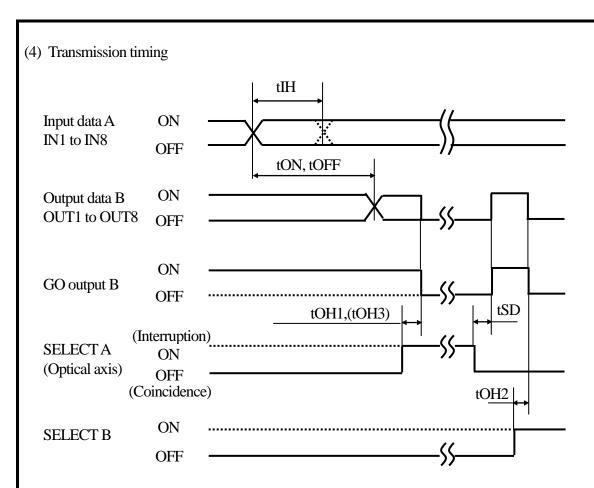
*Mode: Side A - Reception stand-by mode, Side B - Transmission stand-by mode

(3) Measuring block diagram

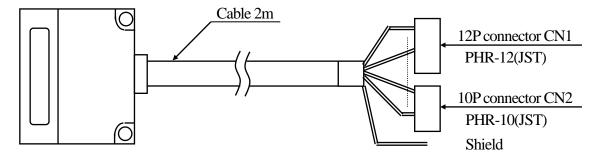


Title	Optical Data Transmission Device	Drawing	C-42-3560	2/5	
	Title	DMS-GB1-Z98 Specifications	No. C-42-3300	C-42-3300	3/3

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



4. External wiring



Colors	Pin No.	Functions
Brown	CN1-3	IN1
Red	CN1-4	IN2
Orange	CN1-5	IN3
Yellow	CN1-6	IN4
Green	CN1-7	IN5
Blue	CN1-8	IN6
Purple	CN1-9	IN7
Gray	CN1-10	IN8
White	CN1-11	SELECT
Pink	CN2-1	MODE
Brown/black	CN2-10	OUT1
Red/Black	CN2-9	OUT2

Colors	Pin No.	Functions	
Orange/Black	CN2-8	OUT3	
Yellow/Black	CN2-7	OUT4	
Green/Black	CN2-6	OUT5	
Blue/Black	CN2-5	OUT6	
Purple/Black	CN2-4	OUT7	
Gray/Black	CN2-3	OUT8	
White/Black	CN2-2	GO	
Pale blue	CN1-12	COM	
Pink/Black	CN1-2	+VIN	
Pale blue/Black	CN1-1	-VIN	
Shield (Green			
Contractible	Shield		
tube)			

Title	Optical Data Transmission Device	Drawing	C-42-3560	1/5
	DMS-GB1-Z98 Specifications	No.	C-42-3300	4/3

5. Function for each terminal **Functions Terminals** IN1 to IN8 Input data OUT1 to OUT8 Output data It is shorted to +VIN: Transmission/reception is stopped **SELECT** It is opened: Transmission/reception is operated It is opened: Transmission standby mode **MODE** It is shorted to +VIN: 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 (18 to 30V)Power source -VIN 0VNote) Make sure to set other one to reception standby mode. Optical Data Transmission Device Drawing C-42-3560 Title 5/5 DMS-GB1-Z98 Specifications No.