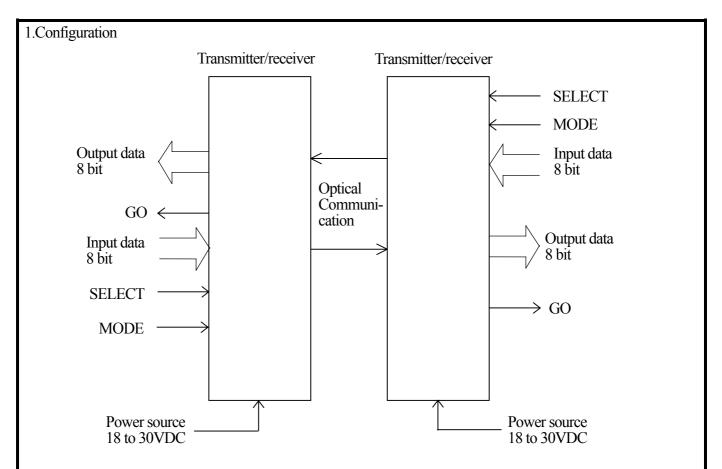
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	ОРТ	TICAL DA	ATA TRA	NSMIS	SION	I DEVI	CE	
	32.					_ · •		
			SPECIFIC	CATION	NS			
	Di	MS-GB1-	P(HEAD-	ON PI	VP ()I	ТТРІ ТТ	7)	
		MS-GB1-						
		MS-HB1	,				,	
		MS-HB2						
Commanda - 1		A 1 . 1	**************************************		Dager	Dat-	Commont	Amondo 1NT
Symbol Approved by	Checked by	Amended Drawn by	Designed by		Pages	Date Optical Data	Corrector Transmissio	Amended No. n Device
11 - 1 3 5 5 7				Title		DMS-GB/H		fications
			IGUCHI	Drawing No.		C-42-31	14	1/5

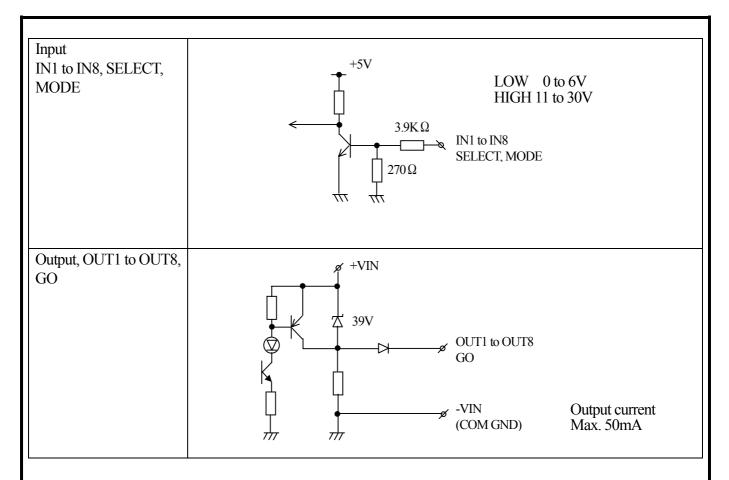
HOKUYO AUTOMATIC CO.,LTD.



2. Specifications

2. Specifications				
Model No.	DMS-GB1-P	DMS-HB1-P	DMS-GB2-P	DMS-HB2-P
Transmission distance	0 to 1.0m(A	Adjustable)	0 to 3.0m(A	Adjustable)
Directive angle	+/- 15 0	degrees	+/- 5 d	egrees
Transmission directions	HEAD-ON	SIDE-ON	HEAD-ON	SIDE-ON
Transmission capacity		Q hit	/8 bit	
(Input/Output)		o uit	o uit	
Transmission method		Half-duplex two-	way transmission	
Transmission time		40n	nsec	
Modulation method		Pulse mo	odulation	
Verification method			check	
Power source	24	4VDC(11 to 30V avai	lable) Ripple 5% or les	SS
Current consumption		100m	A Max.	
Ambient illuminance		4,000lu	x or less	
Ambient temperature/ humidity		-10 to 50 degrees (	C • 85%RH or less	
Vibration resistance	Double amplitude	de 1.5mm, 10 to 30Hz	z, Each 2 hour in X, Y	and Z directions
Impact resistance	50		s in X, Y and Z direction	ons
Connection		Cable type(0.2mm <sup>2</sup> ,	22-core shield cable)	
Protective structure		IP	64	

Title	Optical Data Transmission Device	Drawing	C 42 2144	2/5
Title	DMS-GB/HB-P Specifications	No.	C-42-3144	2/3

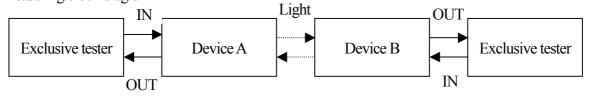


## 3. Transmission characteristics

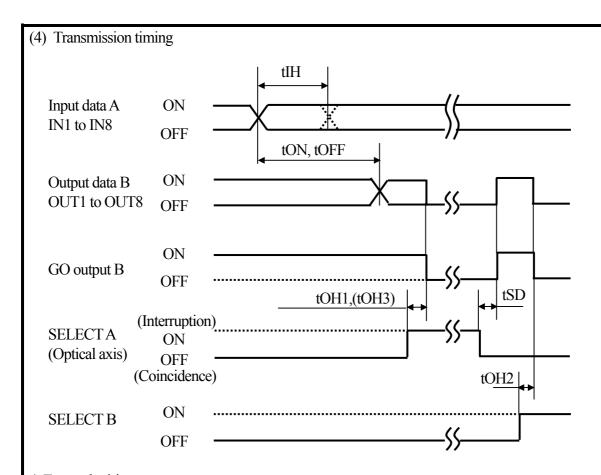
(1) Characteristics data Unit(msec)

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)	เรษ	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

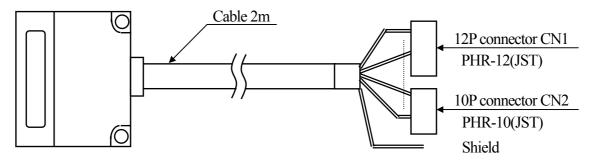
- (2) Characteristics measuring condition
  - \*Mode: Side A Reception stand-by mode, Side B Transmission stand-by mode
  - \*It was measured under input(side A) and output(side B).
- (3) Measuring block diagram



Title	Optical Data Transmission Device	Drawing	C-42-3144	2/5
Title	DMS-GB/HB-P Specifications	No.	C-42-3144	3/3



## 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	Sl	hield
tube)		

Title	Optical Data Transmission Device	Drawing	C-42-3144	1/5
Title	DMS-GB/HB-P Specifications	No.	C-42-3144	4/3

Terminals		Functions	
IN1 to IN8		Input data	
OUT1 to OUT8		Output data	
	It is shorted to +VIN : Transmission		
SELECT	It is opened: Transmission/reception		
	It is opened: Transmission standby		
MODE	It is shorted to +VIN : Reception s		
GO		ceived and OFF when light was interru	upted
COM		non for input/output	1
+VIN	+24V(18 to 30V)		
-VIN	0V	Power source	