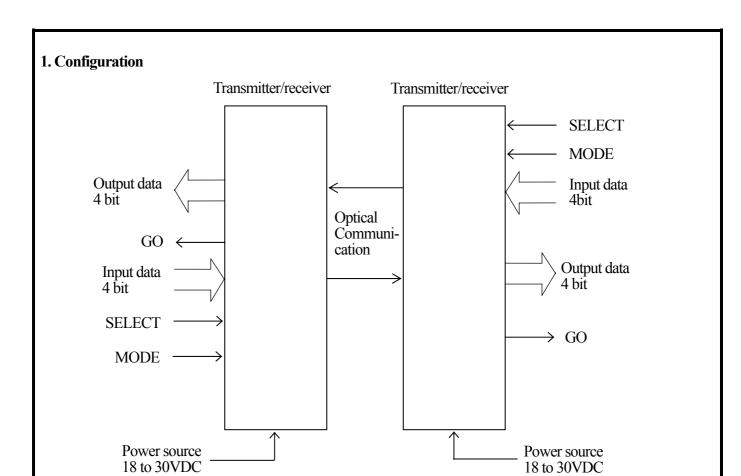
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## OPTICAL DATA TRANSMISSION DEVICE

## **SPECIFICATIONS**

DMS-GA1-P(HEAD-ON, PNP OUTPUT)
DMS-HA1-P(SIDE-ON, PNP OUTPUT)
DMS-GA2-P(HEAD-ON, PNP OUTPUT)
DMS-HA2-P(SIDE-ON, PNP OUTPUT)

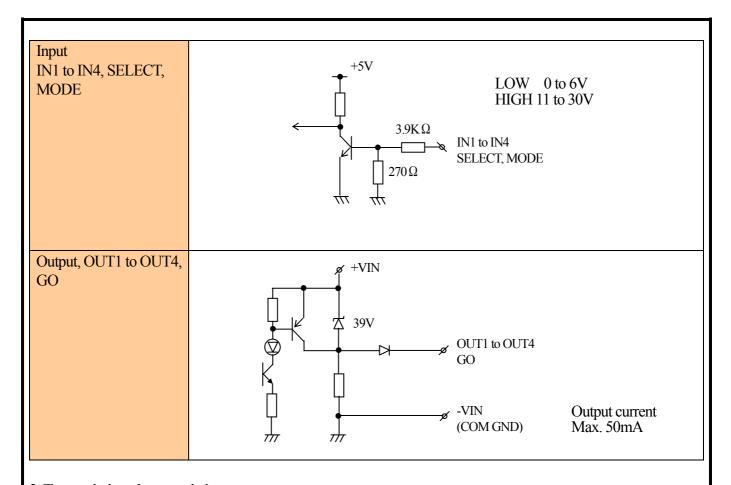
<u>∧</u> ×2	Models added				1,2	Mar.19'04	Iguchi	FA-5166
Symbol		Amended	reason		Pages	Date	Corrector	Amended No.
Approved by	Checked by	Drawn by	Designed by	Title	C	Optical Data	Transmission	n Device
				Title	D	MS-G/HA1	/2-P Spec	ifications
MAEIJIMA	OJIMA	IGUCHI	IGUCHI	Drawing No.		C-42-327	77	1/5



18 to 30VDC

2. Specifications	Â			
Model No.	DMS-GA1-P	DMS-HA1-P	DMS-GA2-P	DMS-HA2-P
Transmission distance	0 to 0.6m(A	Adjustable)	0 to 3.0m(A	Adjustable)
Directive angle	+/- 15 c	legrees	+/- 5 d	egrees
Transmission directions	HEAD-ON	SIDE-ON	HEAD-ON	SIDE-ON
Transmission capacity (Input/Output)		4 bit	/4 bit	
Transmission method		Half-duplex two-	way transmission	
Transmission time		40n	nsec	
Modulation method		Pulse mo	odulation	
Verification method		Parity	check	
Power source	24	4VDC(18 to 30V avai	lable) Ripple 5% or les	SS
Current consumption	100	mA Max.(350mA Ma	x. when connecting lo	ad)
Ambient illuminance		4,000lu	x or less	
Ambient temperature/ humidity		-10 to 50 degrees (	C • 85%RH or less	
Vibration resistance	Double amplitue	de 1.5mm, 10 to 30Hz	z, Each 2 hour in X, Y a	and Z directions
Impact resistance	50		s in X, Y and Z direction	ons
Connection		Cable type(0.2mm <sup>2</sup> ,	15-core shield cable)	
Protective structure		IP	64	

Title	Optical Data Transmission Device	Drawing	C-42-3277	2/5
Title	DMS-G/HA1/2-P Specifications	No.	C-42-32//	2/3

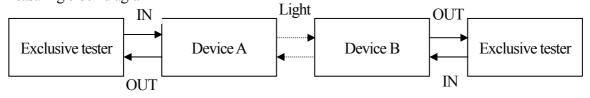


## 3. Transmission characteristics

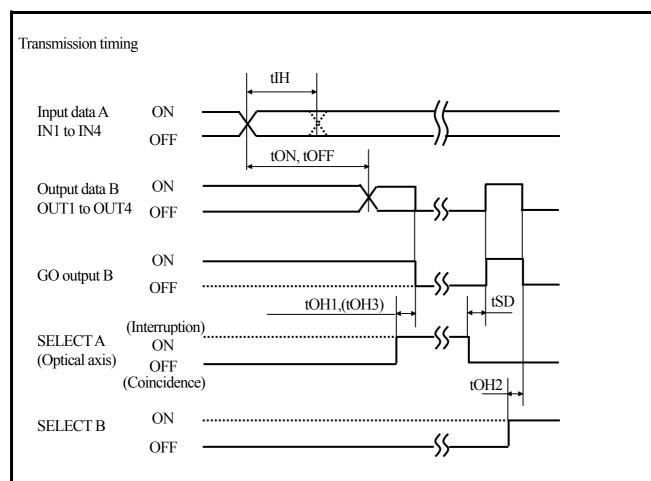
(1) Characteristics data Unit(msec)

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	- 1	5
Output holding time(Against light-interruption)	tOH3	50	90

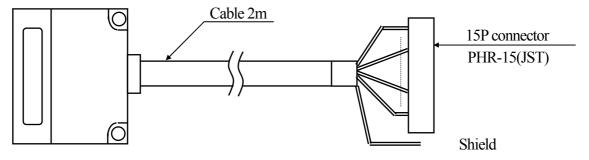
- (2) Characteristics measuring condition
  - \*Mode: Side A Reception stand-by mode, Side B Transmission stand-by mode
  - \*It was measured under input(side A) and output(side B).
- (3) Measuring block diagram



Title	Optical Data Transmission Device	Drawing	C 42 2277	2/5
Title	DMS-G/HA1/2-P Specifications	No.	C-42-3211	3/3



## 4. External wiring



Colors	Pin No.	Functions
Black	1	IN1
Brown	2	IN2
Red	3	IN3
Orange	4	IN4
White/Yellow	5	MODE
Yellow	6	SELECT
White/Blue	7	NC
Green	8	OUT1
Blue	9	OUT2
Purple	10	OUT3
Gray	11	OUT4
White	12	GO
Yellow/Green	13	COM(0V)
Yellow/Red	14	+VIN
Yellow/Black	15	-VIN(0V)
Shield		Shield

Note) Pin No.13 is connected to Pin No.15 inside.

Title	Optical Data Transmission Device	Drawing	C-42-3277	1/5
Title	DMS-G/HA1/2-P Specifications	No.	C-42-3211	4/5

Terminals	FUIL	etions
IN1 to IN 4		t data
OUT1 to OUT4		ut data
	It is shorted to +VIN: Transmission/rece	
SELECT	It is opened: Transmission/reception is o	
MODE	It is opened: Transmission standby mod	
	It is shorted to +VIN: Reception standby	
GO	It is ON when normal data was received	and OFF when light was interrupted
+VIN	+24V(18 to 30V)	Power source
-VIN	ther one to reception standby mode.	1 over source