Dec.14th'00

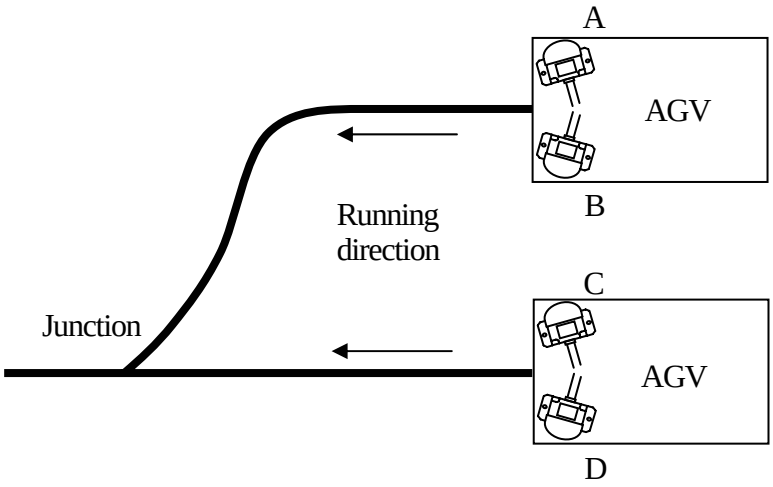
WIDE AREA PARALLEL TYPE DATA TRANSMISSION DEVICE DMW-GA2

SPECIFICATIONS

△1 × 3	Specifications changed			3, 4	May 17'01	Uenishi	FA-4292
Symbol	Amended reason			Pages	Date	Corrector	Amended No.
Approved by	Checked by	Drawn by	Designed by	Title	Wide Area Parallel Type Data Transmission Device DMW-GA2 Specifications		
				Drawing No.	C-42-2985		1/4

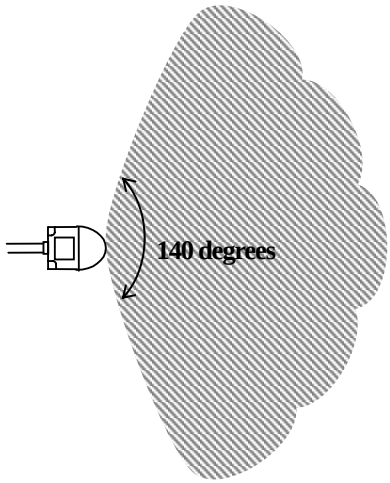
1. General

This device is a wide area type data transmission device which communicates between AGV's and controls at the junction.



DMW at C side
SELECT : OFF
MODE : OFF
(Transmission priority)
DMW at D side
SELECT : ON
(Transmission stop)

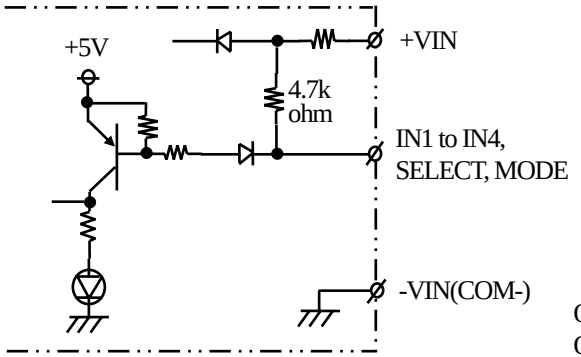
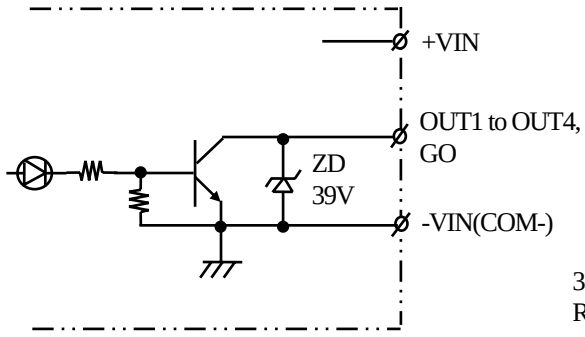
2. Area characteristics(Horizontal direction)



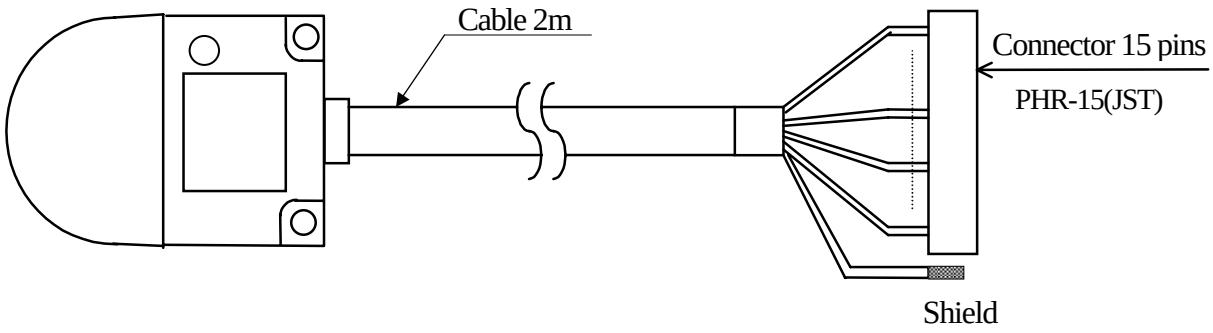
Transmission distance : 3m
Directional angle(Full angle) : 140 degrees

Title	Wide Area Parallel Type Data Transmission Device DMW-GA2 Specifications	Drawing No.	C-42-2985	2/4

3. Specifications

Model No.	DMW-GA2
Transmission distance	3.0m
Directional angle	140 degrees(Full angle)
Transmission direction	HEAD-ON
Transmission capacity (Input/Output)	4 bits / 4 bits
Transmission system	Half-duplex two-way transmission
Transmission time	15msec Max.
Power source	24VDC +/- 10%
Modulated frequency	FSK modulation(230KHz)
Detection method	Bit reverse comparison method
Power source	24VDC +/- 10%
Current consumption	150mA Max.
Ambient temperature	-10 to +50 degrees C/85%RH or less
Ambient illuminance	4,000lux or less
Vibration resistance	Double amplitude 1.5mm, 10 to 30Hz, Each 2 hour in X, Y and Z directions
Impact resistance	490m/s^2, 10 time in X, Y and Z directions
Connection	Lead wire(0.2mm^2 15 cores shield wire)
Protective structure	IP64 ⚠
Input IN1 to IN4 SELECT, MODE	 ON voltage : 2V or less OFF voltage : 8V or more
Input OUT1 to OUT4 GO	 35VDC 50mA Max. Residual voltage 0.9V or less

4. Connection diagram



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	-----	FG

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

5. Each function

Signals	Functions	
IN1 to IN4	Input data	
OUT1 to OUT4	Output data	
SELECT	It is shorted to COM : Transmission is stopped but reception is available It is opened : Transmission/reception is operated	
MODE	It is opened : Transmission priority mode It is shorted to COM : Reception priority mode	
GO	It it ON when normal data was received and OFF when light was interrupted	
FG	Make it condenser earth by ground connection	
COM	Common for input/output	
+VIN	+24V +/-10%	Power source input
-VIN	0V	