Optical Data Transmission Device

CWF SERIES

Small size, light weight & middle distance (50m & 80m)

- This is smaller size and lighter weight than BWF series
- This is a middle distance type Serial Data Transmission Device with 50m and 80m.
- I/O signal with max.128 points can be transmitted with exclusive serial/parallel converter, ISP-A1C-C(16 points per unit).

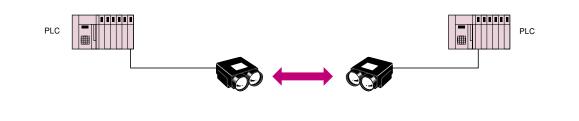


Specifications

Туре	Serial type							
Model No.	CWF-01A	CWF-01B	CWF-11A	CWF-11B	CWF-02A	CWF-02B	CWF-12A	CWF-12B
Transmission distance	50m		80m		50m		80m	
Directional angle	±2°							
Power source	24VDC(±10%)		12 to 24VDC (10 to 30VDC)		24VDC(±10%)		12 to 24VDC (10 to 30VDC)	
Current consumption	160mA(DC12V)/80mA(DC24V)							
Transmission method	Full duplex two-way transmission							
Transmission speed	DC to 19,200bps				DC to 9,600bps			
Interface	RS-422				RS-232C			
Modulating method	FSK modulation							
Modulating frequency	Type A(transmission 5.5MHz, reception 6.0MHz), Type B(transmission 6.0MHz, reception 5.5MHz)							
Connection	9-pin D-sub connector							
Ambient temperature/humidity	-10°C to +50°C, 85%RH or less (Not icing)							
Ambient illuminance	Halogen • incandescent lamp: 20,000lux or less							
Noise resistance	Impluse noise simulator, pulse width 1 µs, 100ns Repeated cycle 100Hz Normal mode 1,000V Common mode 500V							
Protective structure	IP60(IEC standard)							
Warning output(ARM)	ON when light-receiving level margin 1.5 times or more, Photo-coupler, open-collector 35V, 50mA							
Case material	ABS resin(Cover: Polycarbonate)							
Weight	Approx. 240g							

System structure

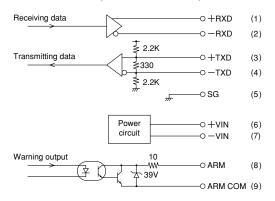




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Input/Output circuit CWF-01A/01B /11A/11B(Interface: RS-422)



Symbols

+RXD

-RXD

+TXD

-TXD

SG

+VIN

-VIN(0V)

ARM

ARM COM

Functions

Receiving data

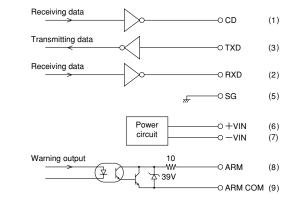
Trasnmission data

Ground for signal

DC power(24VDC)

Warning output

CWF-02A/02B /12A/12B(Interface: RS-232C)



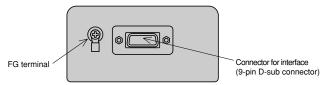
Connection

Interface

RS-422

Power source

Warning



CWF-02A/02B/12A12B							
Interface	Pin No.	Symbols	Functions				
RS-232C	1 CD		Receiving data (Carrier detection)				
	2	RXD	Receiving data				
	3 TXD		Transmitting data				
	4	NC	Non connection				
	5	SG	Ground for signal				
Power source	6	+VIN	DC power(24VDC)				
	7	-VIN(0V)					
Warning	8	ARM	Warning output				
	9	ARM COM					

Note) Don't connect 0V for power source to ground for signal(SG

External dimensions

CWF-01A/01B /11A/11B

Pin No.

1

2

3

4

5

6

7 8

9

