

Management and control of sensors over a network

Mitsubishi Electric iQSS support
Reduces wires and saves space
Remote monitoring of sensors

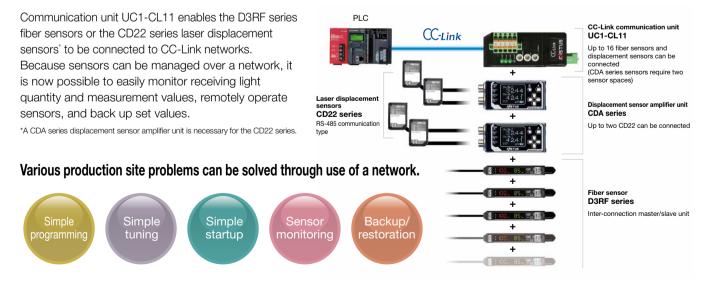
FASTUS is a product brand of Optex FA.



Selection table

Туре	Connectable models	Model
CC-Link communication unit	 Fiber sensor D3RF series inter-connection master/slave unit P.110 Displacement sensor amplifier unit CDA series P.450 	UC1-CL11

A communication unit that drastically improves workability!

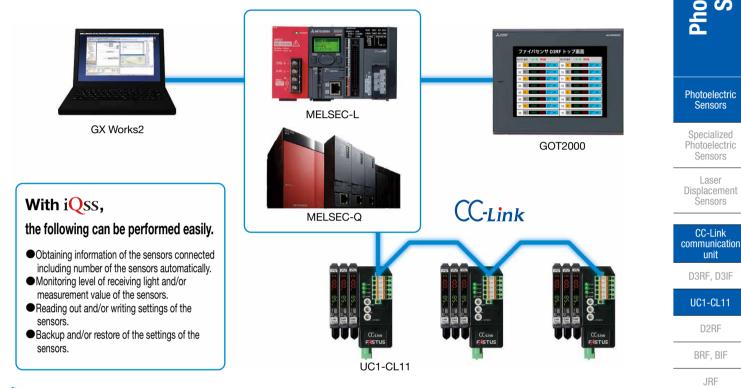


Mitsubishi iQ Sensor Solution (iQSS) support

Linkage of sensor, PLC, GOT and engineering platform.

Sensors can be operated over CC-Link networks using Mitsubishi Electric's GX Works2. By connecting and linking devices, batch management is enabled and increased workability is possible.

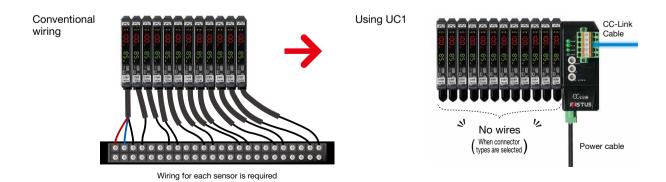
[Connection example]



Reduces wires and saves space

Reduces workload of wiring and setup drastically.

Only 2 cables, including a power supply cable and CC-Link cable, are needed, enabling time spent on wiring to be shortened. Space saving is made possible as the need for multiple sensor cables is eliminated.



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Photoelectric

Sensors

For improving traceability and maintainability

Determining which sensor is the cause of device malfunctions takes time, and determining the underlying cause consumes man-hours. By connecting all sensors used in the production line to CC-Link network, you will be able to improve traceability and maintainability drastically.

Reading out/writing settings of the sensors

By reading out and saving sensor settings in advance, past settings and current settings can be compared to easily identify the causes of malfunctions. By inputting the correct settings for the sensor that caused the malfunctions, it is possible to restore the system instantly.

Photoelectric Sensors

Conventionally

manually one by one

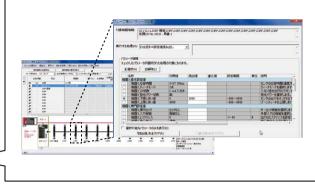
Specialized Photoelectric Sensors

Laser Displacement **Sensors**

UC1-CL11 D2RF BRF, BIF JRF

Using UC1 Necessary to examine settings Management of settings is possible by clicking the sensor icon.





Backup and restore settings into SD memory card

It is possible to backup setting parameters of sensors in the SD memory card and restore the data into sensors from the SD memory card on the PLC. A computer is not necessary when replacing sensors, enabling device operation to be restarted quickly.

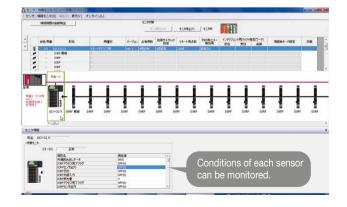


MELSEC-L

Remote monitoring of sensors

Monitoring level of receiving light and/ or measurement value of the sensors

When a device operating abnormality is found, it is possible to remotely confirm the receiving light quantity and settings of the sensors over the network. This enables conditions to be confirmed quickly without entering the worksite.



TEX

Specifications

Dimensions

		CC-Link version		Ver. 1.10		S	
			2/3/4 stations (automatic switching type)				
		No. of occupied stations	[2 occupied stations] 8 or fewer supported sensors can be connected [3 occupied stations] 9 to 12 supported sensors can be connected [4 occupied stations] 13 to 16 supported sensors can be connected (One CDA unit requires two spaces)			С	
CC-Link specifications	CC-Link					R	
	specifications					W	
		Station type	Remote device station		on	Ρ	
		Baud rate	156 kbps/625	kbps/2.5 Mbps/5 I	Mbps/10 Mbps		
		Overall length	1,200 m / 6	00 m / 200 m / 150	0 m / 100 m		
		Station number setting		1 to 63		Er re	
Connected devices	Connectable models	D3RF series inter-connection master and slave un CDA series master unit and slave unit			10		
	devices	No. of connectable units	Up to 16 units *(One CDA unit requ	iires two spaces)	A	
		Connection type	5-pin connector fo	r linking (functions a	s a linking end unit)	A	
Indicators		Power indicator: green LED / Operation indicator: green LED Communication indicator: green LED / Error indicator: red LED		С			
				Ν			
*The maximum number of connectable D3RF units varies according to the ambient temperature.				temperature.	N		
Ambient temperature (°C)		-25 to +55°C	-25 to +50°C	-25 to +45°C	L.		
Maximum No. of connectable D3RF units		1 to 3 units	4 to 8 units	9 to 16 units	In		

Settings	Station number setting	10-digit rotary switch × 2	
	Communication speed	10-digit rotary switch × 1	
Connection type		2-pole terminal block connector	
Rating	Supply voltage	pply voltage 12 to 24 VDC, including ±10% ripple (p-p)	
	Current consumption 160 mA or less (at 12 VDC)		
Warm-up time		1.5 s or less	
Protection circuit		Reverse connection protection	
	Ambient temperature/humidity	-25 to +55°C / 35 to 85% RH (no freezing or condensation)	
Environmental resistance	Storage temperature/humidity -40 to +70°C / 35 to 85% RH		
	Vibration resistance 10 to 55 Hz; double amplitude 1.5 mm; 2 hours in each of the X, Y, and Z direct		
	Shock resistance	esistance 500 m/s ² (approx. 50 G), 3 times in each of the X, Y, and Z direction	
	Degree of protection	IP50	
Applicable	regulations	EMC directive (2004/108/EC)	
Applicable standards Company standards Mounting Material Included accessories		EN 61000-6-2, EN 55011	
		Noise resistance: Feilen Level 3 cleared	
		35 mm DIN rail	
		PC	
		Connector for CC-Link communication, terminating resistor power connector, end plates (2 pieces), instruction manual	

Photoelectric Sensors

Photoelectric Sensors

Specialized Photoelectric Sensors

Laser Displacement Sensors

CC-Link communication unit

D3RF, D3IF

UC1-CL11 D2RF BRF, BIF JRF

(Unit: mm)

Dimensions	39
51.9 (center of DIN rail) 51.9 (center of DIN rail) 5-pin connector for linking	16.21 22.1 Indicators 0.65 39.8 8.5 8.5 8.5 10.65 1
51.14 33.2	

5.2

2.8

B ð

12.4

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