

Amplifier unit that can perform calculations and CC-Link communication

- Up to two displacement sensors can be connected
- Features a clear organic EL display
- Can also display in Japanese











Selection table

| Туре | Supported displacement sensor | Supported communication unit | Master/slave unit | Model |
|--|---|--|-------------------|-------|
| Displacement sensor amplifier unit | •CD22 series (RS-485 type) •CDX series • P.438, P.464 | CC-Link communication unit UC1-CL11 (only for CD22 series) • P.118 | Master unit | CDA-M |
| | | | Slave unit | CDA-S |

Options/Accessories

Displacement sensor/amplifier connection cable



DSL-1204-G02M

Cable length: 2 m Robot cable specification

Extension cable

DSL-0804-G02M

Cable length: 2 m
Cable length between sensor and amplifier can be extended to 4 m by connecting to DSL-1204-G02M.
Robot cable specification

DSL-0804-G05M

Cable length: 5 m
Cable length between sensor and amplifier can be extended to 7 m by connecting to DSL-1204-G02M.
Robot cable specification



Features

Calculation function

Up to two can be connected to the CDA series.

High-speed calculation of thickness and height differences can be performed with one amplifier unit.

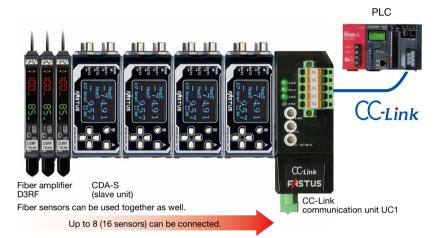




CC-Link connection

By connecting to UC1 series communication unit, CD22 series can be connected to CC-Link.

Monitoring of measurement values and remote monitoring of sensors can be performed easily.



Sensors can be operated through CC-Link communication using Mitsubishi Electric's GX Works2 which supports Mitsubishi iQ Sensor Solution (iQSS).





- Model information and no. of connected units are detected automatically
- Reading, writing, monitoring and backing up of set sensor values is possible

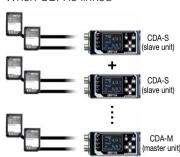
System configuration

CDA only

When using CDA as stand-alone



When CDA is linked



CDA+UC1 (Not for CDX)

When using CDA as stand-alone

CC-Link

When CDA is linked

UC1-CL11

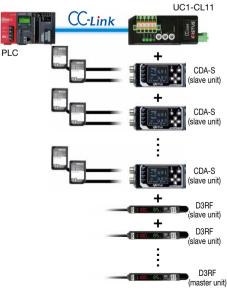
CDA-M
(master unit)

CDA-S
(slave unit)

CDA-S
(slave unit)

CDA-M

CDA + UC1 + D3RF (Not for CDX)



Photoelectric Sensors

Specialized Photoelectric Sensors

> Laser isplacement Sensors

Control Unit

CDX

CDA

LS CD22

CD33

CD4

CD5

UQ1-01

UQ1-02



Specifications

Specialized Photoelectric Sensors

Laser Displacement Sensors

CDX

LS

CD33

CD4

CD5

UQ1-01

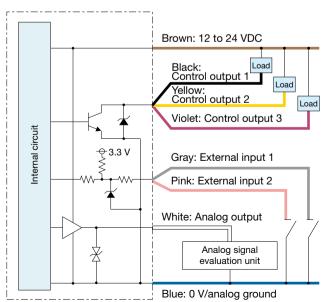
UQ1-02

| Model | | | Master unit | Slave unit | |
|------------------------------------|----------------------|--------------------------|---|--|--|
| | | oaei | CDA-M | CDA-S | |
| Displacement sensor | | No. of connectable units | Max. 2 units of CD22 or CDX series (Connectable model of CD22 series: CD22-□□-485M12) | | |
| | | Connection type | Amplifier side: M8, 4-pin connector / Sensor side: M12, 4-pin connector | | |
| No. of connectable units | | 010.010 00 | Max. 8 units | | |
| (including master unit) | | aster unit) | | | |
| Supply voltage Current consumption | | voltage | 12 to 24 VDC ±10%, including 10% ripple (p-p) | Supplied from master unit or UC1 series* | |
| Current consumption | | consumption | 100 mA or less (at 12 VDC) | | |
| Dot matrix display | | trix display | Organic EL panel 128 × 96 pixels | | |
| Indicators | | ors | Power indicator: Red/Green, Output indicator 1 to 3: Orange | | |
| Analog current output | | nt output | 4 to 20 mA/F.S. Load impedance 300 Ω or less | | |
| Control output | | ut | NPN/PNP open collector (selectable by setting) 3 output max. 100 mA / 30 VDC, Residual voltage: 1.8 V or less | | |
| External input | | ıt | 2 inputs | | |
| Connection type | | type | Cable type: Cable: 2 m (ø5.8) | | |
| | Ambient te | mperature/humidity | -20 to +50°C / 35 to 85% RH (no freezing or condensation) | | |
| ntal e | Storage ter | mperature/humidity | -20 to +60°C / 35 to 85% RH (no freezing or condensation) | | |
| me | Vibration resistance | | 10 to 55 Hz; double amplitude 1.5 mm; 2 hours in each of the X, Y, and Z directions | | |
| Environmenta resistance | Shock resistance | | Approximately 50 G (500 m/s²), 3 times in each of the X, Y, and Z directions | | |
| | Protection circuit | | Reverse connection protection | | |
| | Degree of protection | | IEC standard, IP50 | | |
| Material | | | Polycarbonate | | |
| Weight | | | 170 g | | |

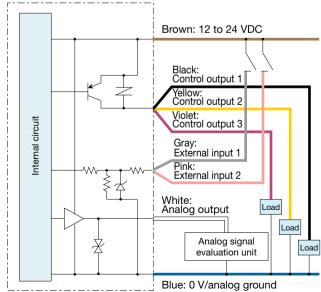
^{*}Supply 12 to 24 VDC to power wires (brown/blue) to be used for the supply voltage of the CD22 series.

I/O circuit diagram

With the NPN setting



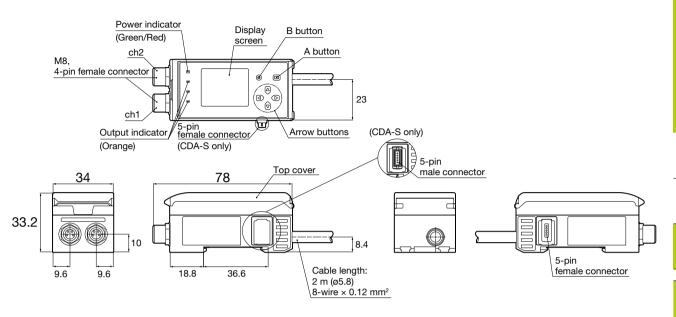
With the PNP setting





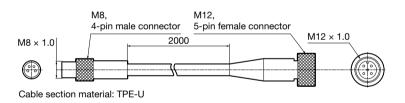
Amplifier unit (Unit: mm)

CDA-M / CDA-S



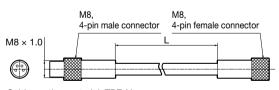
Displacement sensor/amplifier connection cable

■ DSL-1204-G02M



Extension cable

■ DSL-0804-G02M / DSL-0804-G05M



Cable section material: TPE-U

DSL-0804-G02M: L = 2000, DSL-0804-G05M: L = 5000 Photoelectric Sensors

Specialized Photoelectric Sensors

Laser Displacement Sensors

Control Unit

CDX

CDA

LS CD22

CD33

CD4

CD5

UQ1-01

UQ1-02