Information regarding the CDA-M-F02

Compared to the standard product (CDA-M), this product (CDA-M-F02) has been improved as shown below. Furthermore, this product is dedicated for use with the CDX series of OPTEX FA displacement sensors.

1. Increased number of measured value digits displayed

The number of measured value digits displayed has been increased as shown below for the different distance types of the CDX series to connect.

15 mm/30 mm type: Number of digits after the decimal increased to 5 (compared to 3 on the standard product)
85 mm/150 mm type: Number of digits after the decimal increased to 4 (compared to 2 on the standard product)

However, all setting values (see below) are the same as the conventional device.
Scaling maximum (minimum)/near side (far side) threshold/hysteresis (Items on the amplifier menu)
Upper limit (lower limit)/offset value/hysteresis (Judgment output items on the head menu)

2. Increased number of analog output steps

The number of analog output steps has been increased.

		CDA-M		CDA-M-F02	
Model name	Measurement range [mm]	Number of steps	Resolution [μm]	Number of steps	Resolution [μm]
CDX-L15	2	2000	1	50000	0.04
CDX-30	10	10000	1	50000	0.2
CDX-85	40	4000	10	50000	0.8
CDX-150	80	8000	10	50000	1.6
CDX-L15A	2	2000	1	8000	0.25
CDX-30A	10	10000	1	40000	0.25
CDX-85A	40	4000	10	50000	0.8
CDX-150A	80	8000	10	50000	1.6

- The number of steps for A types (resolution-limited editions) is limited according to the resolution (0.25 μm) as shown above.
- The values shown above are from the case in which the whole measurement range of each head is assigned to the whole range of the analog output (4 to 20 mA).
- The values for the wide spot types are the same as those shown above for the small spot types.
- The resolutions shown above are those for the DA converter of the CDA. If the resolution (repeatability) does not meet the above values because the number of averages is low for the CDX, the number of steps is subject to limitation according to such resolution.