

OMRON

Sensor head unit For Model ZX2-LDA□□

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• Laser explanatory label (English)

WARNING

LASER RADIATION

CLASS 1 LASER PRODUCT

MAXIMUM OUTPUT: 0.24mW

PULSE DURATION: 2ms

WAVE LENGTH: 660nm

MEDIUM: SEMICONDUCTOR LASER

IEC 60825-1:2014

EN 60825-1:2014+A11:2021

F.S.: Full scale of measurement

(*)1 Beam diameter: Value of minimum diameter in measuring range. The typical value at the measuring center distance is shown. Defined as $1/e^2$ (13.5%) of the center intensity. The beam diameter may sometimes be affected by the ambient condition of the object such as leaked light from the main beam.

(*)2 Resolution: Fluctuation width of linear outputs when connected to Amplifier Unit (With response time set to 128ms and the standard work (flat mirror) placed at the measuring center distance). This value is related to the accuracy of the static condition work, and not distance accuracy. In a strong electromagnetic field, the performance of resolution might not be able to be satisfied.

(*)3 Linearity: The error in relation to the ideal displacement output straight line when the standard work is measured

(*)4 Temperature characteristic: Value obtained when the sensor and object (standard work) are fixed with an aluminum jig. (Measured at the measuring center distance)

Technical drawing of the front view of a mechanical component, labeled "Arrow view B". The drawing shows a rectangular base with a circular feature at the bottom. Dimensions are provided in millimeters: 22.6 (total width), 9.7 (inner width), 10.1 (outer width), 7 (inner height), 10.5 (outer height), 16.7 (base height), 35.3 (total height), and 15.1 (base width). A "RECEIVING WINDOW" is indicated on the left side, and a "LIGHTS Centre" is indicated on the right side.

Mounting bracket

36.4

31.4

5

2xR3

15

58

3.5

24.5 (Specular reflection)

34.7 (Diffuse reflection)

23

Nut plate

6

2

54.1

48.1

2

Material: Stainless (SUS304)

Thickness: 2.0mm

Material: Stainless (SUS30)

Thickness: 3.0mm

Accessories: Phillips screw (M3 x 1)

Nut plate x 1

Diagram illustrating the mounting of the main unit to the counter-clockwise direction.

Labels and dimensions:

- *1 Phillips screw
- 32
- 22.6
- Nut plate
- Mounting bracket
- 10.5
- *2

Notes:

- *1 The measurement distance reference position is the end face of the mounting bracket.
- *2 To make fine adjustment for the specular reflection type, secure the main unit rotated in the counterclockwise direction.

Within 100mm

The serial number "SSSSMYYA" on the label on the product indicates the date of manufacture.
SSSS: Identification number
M: Months of production 1-9 for Jan.-Sep., X for Oct., Y for Nov., Z for Dec.
YY: Year of manufacture (last 2 digits of A.D.)
A: Our control number

NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCT(S) IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

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