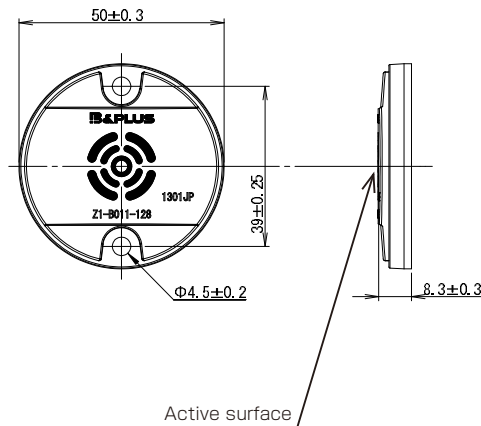


**Dimension**



**Specification**

|                       |  |
|-----------------------|--|
| Function              | Read / Write   |
| Size                  | φ 50 x 8.3   |
| Case material         | PA6  |
| Memory                | 128 byte(1 12 bytes of user's area )                           |
| Operating temperature | - 20 ... + 85 deg.C.   |
| Storage temperature   | - 25 ... + 120 deg.C.  |
| Protection class      | IP67 (IEC)   |
| Memory type           | EEPROM   |
| Write cycles          | 100,000  |
| Read cycles           | Unlimited  |
| Data retention time   | 10 years   |
| Installation          | M4 screw *1 (Tightening torque : 0.7Nm)                        |
| Mouting on metal      | Z3 series : no<br>Z5 series : yes *2                           |
| Vibration             | 10..55Hz times each axis to x-y-z,<br>total 18 times.1.5mm XYZ |
| Weight                | 18 g   |

\*1 Not included

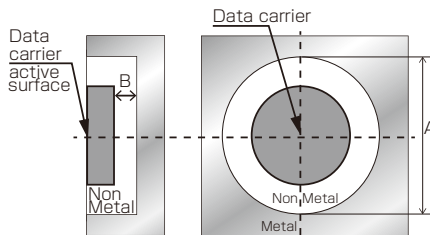
\*2 Please refer to the installation notes "Surrounding metal" as below.

**Installation notes**

■ **Surrounding metal**

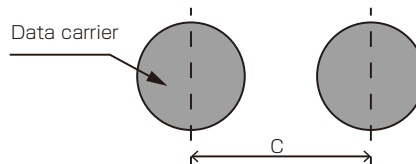
The surface of the Data carrier must not be lower than the surrounding metal.

\* In the case of using with the Z3 series antenna, the Data carrier cannot be used in metal-mounting.



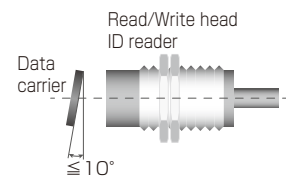
■ **Installation in side-by-side**

The minimum distance D between two Data carriers must be kept. In addition, the distance of mutual interference changes with Read/Write head and ID readers to be used.



■ **Permissible inclination**

The sensing surfaces of Read/write head and Data carrier should be installed in parallel. If the inclination of Data carrier to Read/write head becomes over 10 degrees, read/write distance and offset will decrease.



(mm)

|           | A   | B     | C   |
|-----------|-----|-------|-----|
| Z3 series | 200 | 30    | 200 |
| Z5 series | 70  | 0(20) | 100 |

- "Metal mount" means directly mounted on the metal. but it refers to the absence of metal around except rear of the Data carrier
  - Value in ( ) shows the required space to keep the communication distance as same as no-metal mounting.
  - There is a possibility that the communication distance is shorter if you do not observe the conditions of the surrounding metal.
- Please note that different in the environment to be used.
- Be sure that the surface of the data carrier does not lower than the surface of the surrounding metal.