FEATURES
● Wide effective area: 23 mm × 23 mm
● High speed response
● Compact
● Light weight: Approx. 31 g (R11265U series)
  Approx. 74 g (H11934 series)
● With divider circuit (H11934 series)

APPLICATIONS
● High energy physics
● Scintillation counting
● Portable radiation monitor with nuclear identification

Figure 1: Typical spectral response

Figure 2: Typical gain

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Subject to local technical requirements and regulations, availability of products included in this promotional material may vary. Please consult with our sales office.

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Figure 3: Time response (Example)

Figure 4: Single photon counting (Example)

Figure 5: Energy resolution

Typical energy resolution for metal package PMTs
R11265U-200
\(^{57}\text{Co} : 7.4 \% \\
^{137}\text{Cs} : 3.1 \% \\
Scintillator: \(1/2\)\(\times\) \(1/2\) LaBr\(_3\)(Ce)
### VOLTAGE DISTRIBUTION RATIO AND SUPPLY VOLTAGE

| Electrodes      | K | Dy1 | Dy2 | Dy3 | Dy4 | Dy5 | Dy6 | Dy7 | Dy8 | Dy9 | Dy10 | Dy11 | Dy12 | P |
|-----------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-
| Standard divider type | 2.5 | 1.3 | 0.8 | 0.8 | 1   | 1   | 1   | 1   | 1   | 1   | 1    | 1    | 1    | 0.5 |
| Tapered divider type | 3.3 | 1.6 | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1    | 1    | 1    | 2.7 | 1.3 |

Supply voltage: 900 V,  K: Cathode,  Dy: Dynode,  P: Anode

### Anode characteristics

<table>
<thead>
<tr>
<th>Anode to cathode supply voltage (V)</th>
<th>Luminous (A/lm)</th>
<th>Gain</th>
<th>Dark current (A)</th>
<th>Rise time (ns)</th>
<th>Transit time (ns)</th>
<th>T.T.S. (mA)</th>
<th>Pulse linearity</th>
<th>Operating ambient temperature (°C)</th>
<th>Storage temperature (°C)</th>
<th>Type No.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Min. (A/lm)</td>
<td>Typ. (A/lm)</td>
<td>Typ. (A)</td>
<td>Typ. (ns)</td>
<td>Typ. (ns)</td>
<td>Typ. (mA)</td>
<td>Typ. (mA)</td>
<td>±2 % Deviation</td>
<td>±5 % Deviation</td>
<td></td>
</tr>
<tr>
<td>900</td>
<td>50 (20)</td>
<td>130</td>
<td>1.2 × 10⁶</td>
<td>2</td>
<td>20</td>
<td>0.27 (0.27)</td>
<td>20</td>
<td>60</td>
<td>-30 to +50</td>
<td>R11265U-100</td>
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( ) : Measured with the special voltage distribution ratio (Tapered Divider) shown below.

### Figure 6: T.T.S. characteristic (Example)

![Figure 6: T.T.S. characteristic](image1)

**SUPPLY VOLTAGE: -900 V**

**FWHM: 0.27 ns**

**STANDARD DIVIDER**

**COUNTS**

**TIME (1 ns/div)**

### Figure 7: Effect of magnetic fields on anode output (Example)

![Figure 7: Effect of magnetic fields on anode output](image2)

**SUPPLY VOLTAGE: -900 V**

**STANDARD DIVIDER**

**Z-AXIS**

**Y-AXIS**

**X-AXIS**

**MAGNETIC FLUX DENSITY (mT)**

**RELATIVE OUTPUT**

**TIME (1 ns/div)**

### Figure 8: Dimensional outline and basing diagram (Unit: mm)

- **R11265U series**

  ![Dimensional outline and basing diagram](image3)
WARNING – High voltage –

The product is operated at high voltage potential. Further, the metal housing of the product is connected to the photocathode (potential) so that it becomes a high voltage potential when the product is operated at a negative high voltage (anode grounded). Accordingly, extreme safety care must be taken for the electrical shock hazard to the operator or the damage to the other instruments.

* C13890 series can be used for R11265U series / H11934 series.