

AEI photoemissive detector tube for industrial optical sensing, an updated variant of the 27M12 family.

### GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | —                 | BASE PINS            | —             |
| NOMINAL HEATER      | — / —             | PARALLEL HEATER      | — / —         |
| HEATING             | Indirect          | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

### SECTION RATINGS

|                            |                 |
|----------------------------|-----------------|
| SECTION00                  | Photomultiplier |
| No fixed ratings recorded. |                 |
| REDO promoted-field audit  |                 |

27M12A PhotoTube; full semantic REDO from printed ratings and characteristics.



## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1961 AEI Industrial Valves

Published test conditions and operating points. Values on this page are preserved as reported by this source.

## 1961 AEI INDUSTRIAL VALVES

## Section 0 · Photomultiplier

| CHARACTERISTICS                      |                 |                  |
|--------------------------------------|-----------------|------------------|
| PARAMETER                            | PUBLISHED VALUE | CONDITION / NOTE |
| Maximum dynode-chain voltage         | 585 V           | —                |
| Maximum anode-to-last-dynode voltage | 65 V            | —                |
| Maximum anode current                | 1 mA            | —                |
| Average cathode sensitivity          | 20 uA/lumen     | —                |
| Dynode-output luminous sensitivity   | 0.4 A/lumen     | —                |
| Dynode-output current amplification  | 20000           | —                |
| Anode-output luminous sensitivity    | 0.65 A/lumen    | —                |
| Anode-output current amplification   | 50000           | —                |



## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1961 Associated Electrical Industries

Published test conditions and operating points. Values on this page are preserved as reported by this source.

## 1961 ASSOCIATED ELECTRICAL INDUSTRIES

## Section 0 · Photomultiplier

| OTHER                     |                 |                  |
|---------------------------|-----------------|------------------|
| PARAMETER                 | PUBLISHED VALUE | CONDITION / NOTE |
| MaximumDynodeChainVoltage | 585 V           | —                |

| PARAMETER                                 | PUBLISHED VALUE | CONDITION / NOTE |
|-------------------------------------------|-----------------|------------------|
| MaximumAnodeToLastDynodeVoltage           | 65 V            | —                |
| Maximum Anode Current                     | 1 mA            | —                |
| TypicalAnodeToLastDynodeVoltage           | 65 V            | —                |
| TypicalVoltagePerStage                    | 65 V            | —                |
| AverageCurrentAmplificationFromLastDynode | 20000           | —                |
| AverageCurrentAmplificationFromAnode      | 30000           | —                |

| CHARACTERISTIC                 |                 |                   |
|--------------------------------|-----------------|-------------------|
| PARAMETER                      | PUBLISHED VALUE | CONDITION / NOTE  |
| AveragePhotocathodeSensitivity | 20 uA/lm        | TungstenLamp2700K |

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