# RT8420-0R50-112-1120 ✔ ACTIVE

MEAS | MEAS RT8420

TE Internal #: 04-1298-0151

TE Internal Description: RT8420-0R50-112-1120

Rotary Displacement Potentiometer 4-20MA

View on TE.com >

Sensors > Position Sensors > Potentiometer Sensors > Rotary Potentiometers > Rotary Displacement Potentiometer 4-20MA



Position Sensor Product Type: **Industrial Rotary Potentiometer**

Housing Diameter: **63.2 mm [ 2.49 in ]**

Supply Voltage Range: **8 – 34 VDC**

Input Current: **20 mA**

Non-Linearity: **.5 %**

All Rotary Displacement Potentiometer 4-20MA (348)

## Features

### Product Type Features

| | |
|---|---|
| Position Sensor Product Type | Industrial Rotary Potentiometer |

### Configuration Features

| | |
|---|---|
| Electrical Connection | Cable 10 ft Waterproof |

### Electrical Characteristics

| | |
|---|---|
| Supply Voltage Range | 8 – 34 VDC |
| Input Current | 20 mA |
| Output Current (Max) | 20 mA |
| Output Impedance | 100M Ω |

### Body Features

| | |
|---|---|
| Product Weight | 1361 g[48 oz] |

### Housing Features

| | |
|---|---|
| Housing Diameter | 63.2 mm[2.49 in] |

### Dimensions

| | |
|---|---|
| Shaft Diameter | 6.35 mm[.25 in] |

### Usage Conditions

| | |
|---|---|
| Operating Temperature Range | -40 – 90 °C[-40 – 194 °F] |

## Operation/Application

| | |
|---|---|
| Output Signal Type | 4 – 20 mA |

## Other

| | |
|---|---|
| Non-Linearity | .5 % |
| Non Repeatability and Hysteresis | .05 |
| Torque | 32 in-lbs |

# Product Compliance

For compliance documentation, visit the product page on TE.com>

| | |
|---|---|
| EU RoHS Directive 2011/65/EU | Out of Scope |
| EU ELV Directive 2000/53/EC | Not Yet Reviewed |
| China RoHS 2 Directive MIIT Order No 32, 2016 | 有害物质含量超出标准 Restricted Substance(s) Above Threshold |
| EU REACH Regulation (EC) No. 1907/2006 | Current ECHA Candidate List: JUNE 2025 (250)<br>Candidate List Declared Against: Not Yet Reviewed<br>SVHC > Threshold:<br>2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one (5.3% in Component)<br>Methanone, (diphenylphosphinyl)(2,4,6-trimethylphenyl)- (1% in Component)<br>Pb (18% in Component)<br>**Article Safe Usage Statements:**<br>Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Do not handle until all safety precautions have been read and understood. Recycle if possible and dispose of the article by following all applicable governmental regulations relevant to your geographic location. |
| Halogen Content | Low Halogen - Br, Cl, F < 900 ppm per homogenous material. Also BFR/CFR/PVC Free |
| Solder Process Capability | Not reviewed for solder process capability |

Product Compliance Disclaimer

This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked. Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulation, the information TE provides on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) 'Guidance on requirements for substances in articles' posted at this URL: https://echa.europa.eu/guidance-documents/guidance-on-reach

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## Also in the Series | MEAS RT8420



Rotary Potentiometers(348)

## Documents

### Datasheets & Catalog Pages

RT8420

English