

ADC353K Linear Integrator

- Suitable for SIL 1 & SIL 2 rated (IEC61508) safety system loop applications, as 1oo1 architecture (HFT:0)
- Suitable for flow applications where an external counting device totalises impulses or as a voltage/current to pulse transmitter.
- Supply voltage options:
 - 115Vac $\pm 20\%$
 - 240Vac $\pm 20\%$
 - 24Vdc $\pm 2.5V$
 - 48Vdc $\pm 5V$
- RFI Protection to IEC61000-4-3:2006/A2:2010
- AMELEC Standard 10 year warranty

Technical Specifications

Input

Any current or voltage (DC) drive that can be terminated in a PI network to produce a 400mV span. Typical examples; 4-20mA (impedance 20 Ω), 1-5Vdc or 0-10Vdc (impedance 1M Ω)

Output

A pulse (24Vdc 30mS duration as std) and/or Volt Free Contact Closure ('R' Option), with a full scale specified anywhere in the range of 0-50 counts up to 50,000 counts per hour. Cut off factory set at 1% of span as std.

Protection

Isolation: 500Vdc Input/Contacts/Contacts/Supply/Earth
RF Immunity: 20MHz-3GHz/5.25GHz $\leq 10V/m$,
(80MHz-1GHz/5.6GHz $\leq 30V/m$, 889MHz-1.75GHz $\leq 40V/m$)

Performance

Response time: <100mS
Input Open Circuit response: Downscale drive
Accuracy/Linearity: $\leq \pm 0.1\%$ span
Supply regulation: AC $\pm 20\%$, DC $\pm 10\%$
Consumption: 3VA

Environmental Conditions

Storage Temperature: -40 to 70°C
Operating Ambient: -15 to 55°C
Relative Humidity: 5 – 95 RH

Enclosure Dimensions

50w x 75h x 182d mm

Mounting

Heavy duty Din Rail (TS35) as std.

Surface by Seismic Keyhole Plate option is available, with a rear mounting plate Dimension of: 50w x 130h mm.

WIRING

