

ADC353(R) Linear Integrator

- Suitable for SIL 1, SIL 2 & SIL 3 rated (EN 61508-2) safety instrumented system (SIS) loop applications
- Suitable for flow applications where an external counting device totalises impulses, or as a voltage/current to pulse transmitter.
- Supply voltage options:
 - 115Vac ±20%
 - 240Vac ±20%
 - 24Vdc ±10%
 - 48Vdc ±10%
- Non-Smart / Non-uProcessor based, Type A instrument
- RFI Protection to EN 61000-4-3:2006/A2:2010 available ('K' option)
- 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.
 Current from 1mA span, up to 100mA max input (passive port)
 Voltage ranges up to 150Vdc max as std (impedance $\geq 1M\Omega$)
 Typical Input: 4-20mA (impedance 20 Ω) or 0-10Vdc (impedance 1M Ω)

Output

Either a pulse (24Vdc @30mS duration) &/or contact closure ('R' Option) with a full scale in the range 10 to 50,000 counts per hour.
 Cut off factory set at 1% of span as std.
 ('other' pulse durations available on request)

Typical Output:

0-1000 counts per hour, 24V amplitude 30mS wide
 0-360 contact closures per hour (With R option)

Accuracy/Linearity: $<\pm 0.1\%$ span

Isolation

1000V RMS* Input/Output/Supply/Earth
 *(500Vdc if 'K' option RFI protection is specified)

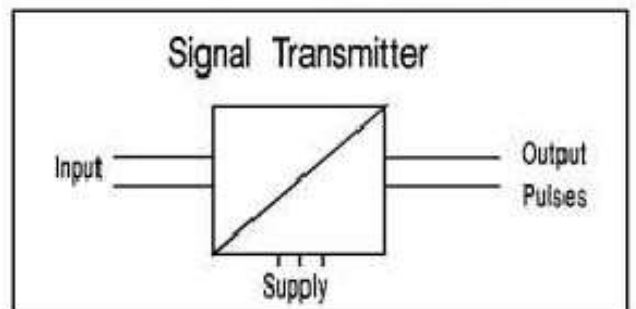
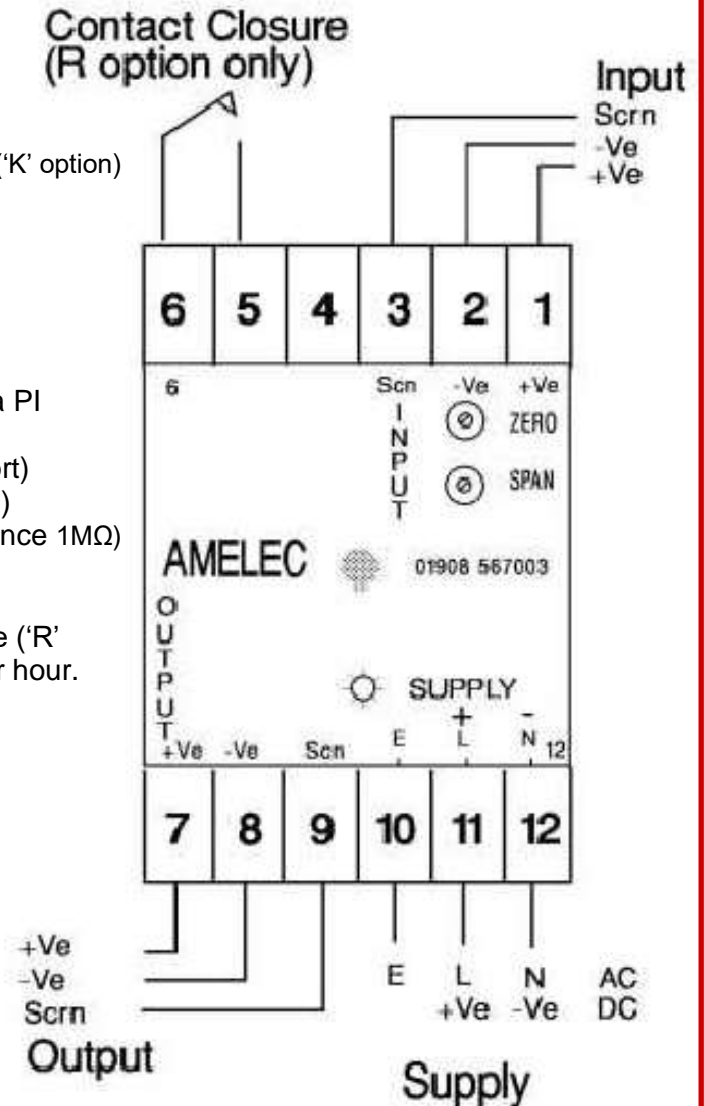
Environmental Conditions

Storage Temperature: -40 to +70°C
 Operating Ambient: -15 to +55°C
 Relative Humidity: 5 – 95 RH (Non-Condensing)
 EMC: Directive 2014/30/EU, EN 61326-1: 2013 (Controlled EM)
 ('K' option: to the highest Generic Industrial levels)

Dimensions/Mounting

Std enclosure: 50w x 75h x 110d mm
 Din Rail (TS35) or Surface by corner fixing holes
 ('K' option enclosure Dims = 50w x 75h x 182d mm)

WIRING



Tel: 01908-567003 Email: sales@amelec-uk.com Visit: www.amelec-uk.com Fax: 01908-566735

AMELEC Instruments, Cochran Close, Crownhill, Milton Keynes, MK8 0AJ