

ADM280 Frequency to Process I/V Transmitter / Isolator

- Suitable for SIL 1 & SIL 2 rated (EN 61508-2) safety instrumented system (SIS) loop applications, as 1oo1 architecture (HFT:0)
- Supply voltage options:
 - 115Vac ±20%
 - 240Vac ±20%
 - 24Vdc ±10%
 - 48Vdc ±10%
 - 110Vdc ±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 Pulse/Frequency

Any regular pulse or repetitive wave form incl; Namur, Sine, Square or Sawtooth. Min 25Hz calibrated Span, Max 50KHz. Input level may be anywhere between 50mV and 200V p-p. Front Plate pot screened Cut Off to set minimum signal Voltage (Factory set @ 100mV or 1V)

Voltage pulses up to 200V or Volt free contacts (wetted with 10V @3mA) Current from 100uA (AC/NPN/PNP/TTL/OPEN COLLECTOR/RELAY inputs available)

Up to 24Vdc @22mA I/P loop/sensor Excitation available ('M' option)

Output

Any standard process current or voltage (DC) signal Current source up to 20mA. Drive voltage 24Vdc Voltage source up to 10V. Max current 20mA Typical Output options; 4-20mA (max load 1200Ω) or 0-10Vdc (min load 500Ω)

Accuracy/Linearity: ±0.1% span

Isolation

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

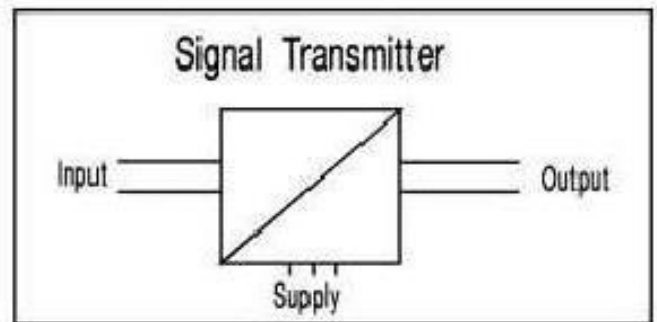
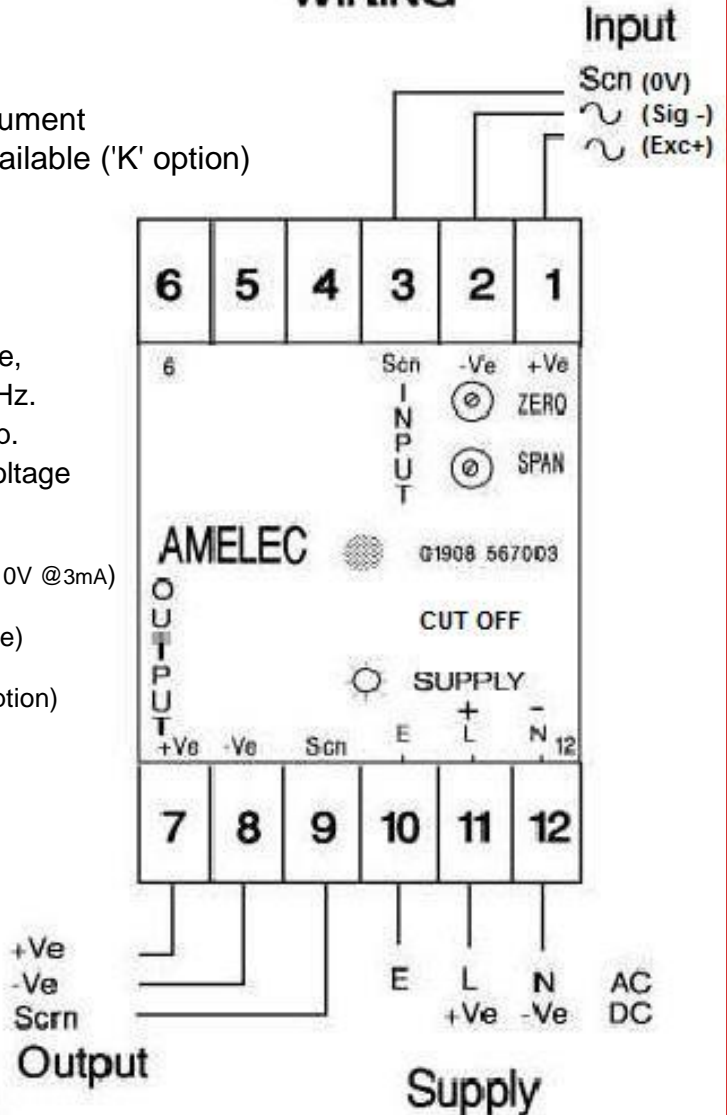
Environmental Conditions

Storage Temperature: -40 to +70°C
 Operating Ambient: -15 to +55°C
 Relative Humidity: 5 – 95% RH (Non-Condensing)
 EMC: 2014/30/EU, EN 61326-1:2013 (Controlled EM)
 'K' option to the highest Generic Industrial levels, with
 RF Immunity: 20MHz-3GHz/5.25GHz ≤10V/m,
 (80MHz-1GHz/5.6GHz ≤30V/m, 889MHz/1.75GHz ≤40V/m)

Dimensions

50w x 75h x 110d mm
 ('K' option enclosure = 50w x 75h x 182d mm)

WIRING



Mounting

Either Din Rail (TS35) or Surface by corner fixing holes as standard

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