AMELEC
SIGNAL CONDITIONING

AGS1013 Slow Frequency to Process I/V Transmitter

- Suitable for SIL 1 & SIL 2 rated (EN 61508) safety instrumented system (SIS) loop applications, as 1oo1 architecture (HFT:0)
- Accepts SLOW Pulse or Frequency input and provides a Current/Voltage output
- Supply voltage options: 115Vac ±20%
  - 240Vac ±20%
  - 24Vdc   ±10%
  - 48Vdc   ±10%
- RFI Protection to EN 61000-4-3:2006/A2:2010 available ('K' option)
- AMELEC Standard 10 year warranty

Technical Specifications

Input Pulse/Frequency
Designed to accept a continuous moving input signal.
Minimum full span: 0.25Hz, Maximum span: 500Hz.

Typical Input
0-5Hz, 500mV amplitude

N.B; The unit measures the time interval between consecutive pulses, the inverse of this time being proportional to the input frequency. When the unit is initially powered up the output will be at 0 or 100% waiting for the first pulse to arrive.

Accuracy/Linearity
Because we are measuring time the unit is more accurate at the lower end, 5 to 40% of span <±0.1%, at 100% of span the accuracy is <±0.5% of span.

Cut off;
Factory set @ 5% of span as standard.
(Can be set differently to suit applications if required)

Output
Any standard process current or voltage
Current source up to 20mA Drive voltage 24Vdc
Voltage source up to 10V Max current 20mA

Typical Output ranges
Current: 4-20mA, max load 1200Ω
Voltage: 0-10Vdc, min load 500Ω

Isolation
1000V RMS. (Input+Output)/Supply/Earth
*(500Vdc when '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)
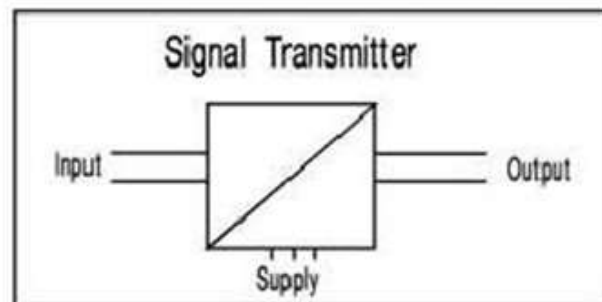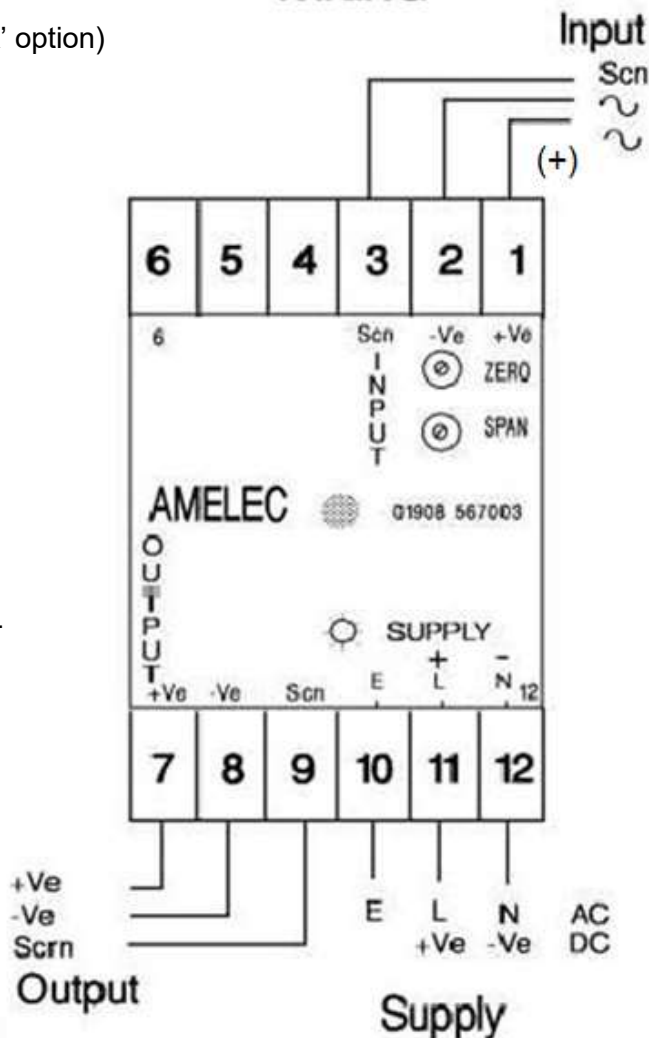('K' option: EMC/EMI/RFI protection to the highest Generic Industrial levels)

Mounting
Din Rail (TS35) or Surface by corner fixing holes

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

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