

# **AEC231-EX Signal Isolator/Splitter Power Supply**

Accepts 4-20mA from transmitters in the Hazardous Area

- Integrated 16.5Vdc @20mA 2/3-wire loop power
- Provides 2 x isolated voltage or current outputs

# **Technical Specifications**

## <u>Input</u>

The input signal range is 4-20mA as std, from the hazardous area via the associated EX Barrier supplied alongside.

The barrier provides a fully floating dc Excitation supply for energising a conventional 2 or 3-wire transmitter located in the hazardous area. In turn, the AEC231 isolates, splits and repeats the current to drive into two independent loads in the safe area.

#### **Output**

The output signal ranges are 4-20mA repeats (Active ports, into  $650\Omega$  max loads) as std.

Other output ranges are available on request, typically including; 0-10mA, 0-20mA, 1-5mA, 0-1V, 0-2V, 0-5V, 0-10Vdc or 1-5V dc.

The mA outputs are configured as Active/Source ports as std. Passive/Sink port options are available on request.

#### **Performance**

Accuracy/Linearity: < ±0.1% span

Response time: <250mS (0-100% input step change) 1000V RMS Input/Output/Output/Supply Isolation: AEC231 Supply: Universal 21V up to 265V (AC or DC)

Assoc. Barrier Supply: 20-35Vdc Supply consumption: <3VA

Input O/C response: Downscale drive

#### **Environmental Conditions**

Storage Temperature: -20°C to +70°C -16°C to +55°C Operating Ambient:

Relative Humidity: 5 – 95% RH (Non-condensing) EMC: 2014/30/EU, EN 61326-1:2013 (Controlled EM)

### **Dimensions & Mounting**

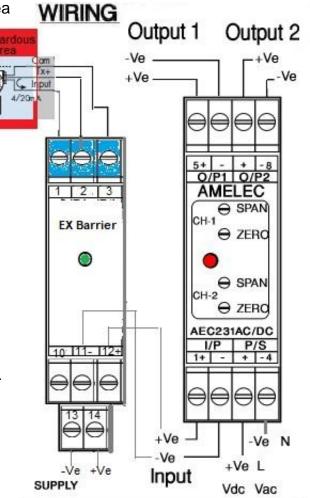
Safe Area mounting, accepting input from hazardous area. AEC 231 = 22.5w x 75h x 105d mm enclosure EX Barrier =  $16.0 \text{w} \times 109.8 \text{h} \times 123.6 \text{d}$  mm enclosure Suitable for Din Rail (TS35) mounting

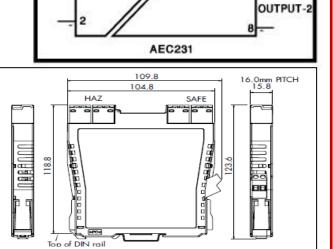
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INPUT

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POWER SUPPLY

OUTPUT-1