ADM270X Strain Gauge Transmitter (3 Wire Output)

- Suitable for most strain Gauge
- Supply voltage: 22 to 30Vdc (<1.5VA)
- RFI protection to IEC61000-4-3
- Amelec standard 10 year guarantee
- Suitable for SIL Level 1, 2, & 3 (IEC 61508-2)

APPLICATION

- Weighing system for tanks, hoppers and silos
- Crane protection & control system
- Pressure sensor utilising strain gauges
- Float level meter utilising strain gauges
- Load cells utilising strain gauges

TECHNICAL SPECIFICATION

FUNCTION

Provides a DC output signal proportional to a bridge type strain gauge utilised in load cells and pressure transducers

INPUT

Minimum span 4mV
Excitation 5 to 10V at up to 22mA.

OUTPUT

DC current or voltage specified in the range of:
Current up to 21mA max in Sink configuration (externally powered)
Current up 22mA max Source configuration (Internally powered)
Voltage any from 0.4 to 20V max @ up to 10mA.
Typical output range: 4 - 20mA (Source)

CONTROLS

Zero / Span: 15 turn potentiometer.

INDICATOR

Power ON: LED, Amber.

PERFORMANCE

Linearity: < ±0.1%
Response time: Typically < 400mS
Accuracy: < ±0.1%

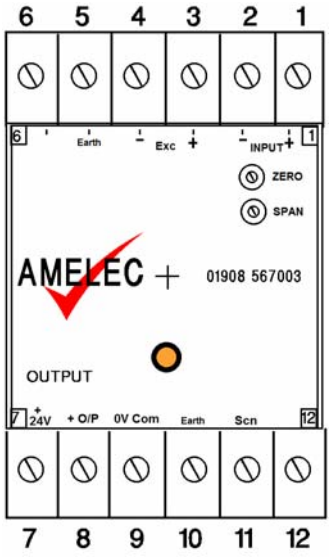
PROTECTION

Input O/C drive upscale. (Downscale may be specified).
Isolation 1000V RMS. Exc/(Input+Output+Supply)/Earth
Internal Fuse.
Input over range up to typically 300%.

TERMINATION

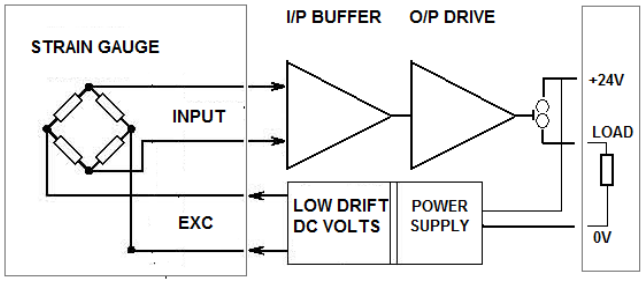
INPUT +	1
IINPUT -	2
EXC +	3
EXC -	4
Earth	5
	6
24V +	7
OUTPUT +	8
Com 0V	9
Earth	10
Scn	11
	12

FRONT VIEW



Note: TB5 & 10 are internally linked.
TB11 is Floating screen.

FUNCTION BLOCK DIAGRAM



ENVIROMENTAL CONDITION

Storage temperature: - 40 to +70 ℃
Operating Ambient: -15 to +55 ℃
Relative Humidity: 5 to 95% RH

MOUNTING / DIMENSION

Enclosure: 50w x 75h x 182d
Mounting: Din rail / Surface (optional Panel Mount)
Weight < 500g

ADD ON / OPTIONS

DI: LCD display for local monitoring
J : Input injection jack socket
P: Test point (Trip set point monitoring)
Non standard Power supply ranges available

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