

## ADM270KX Strain Gauge Transmitter (3 Wire Output)

- Suitable for use in most Strain Gauge/Load Cell monitoring applications
- Supply voltage: 22 to 30Vdc (<1.5VA)
- RFI protection to IEC61000-4-3:2006/A2:2010
- Suitable for SIL 1, SIL 2, & SIL 3 rated (IEC 61508-2) safety system loop applications.
- Amelec standard 10 year warranty

### APPLICATION

- Weighing systems for tanks, hoppers and silos
- Crane protection & control systems
- Pressure sensing utilising strain gauges
- Float level metering utilising strain gauges
- Load monitoring 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 (up to max 400mV span)  
Excitation 5V to 10V at up to 22mA.

#### OUTPUT/Supply

4-20mA three wire loop powered  
Nom. 24Vdc supply

#### CONTROLS

Zero / Span: 15 turn potentiometer.

#### INDICATOR

Power ON: LED, Amber.

#### PERFORMANCE

Accuracy/Linearity: <  $\pm 0.1\%$   
Response time: Typically < 400mS

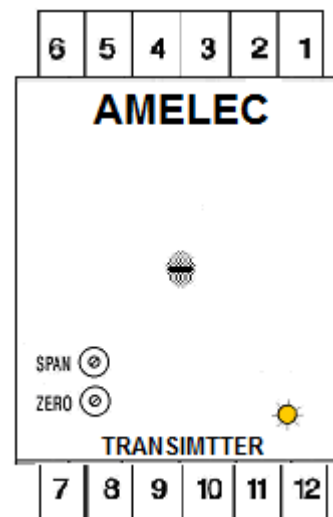
#### PROTECTION

Input O/C drive upscale. (Downscale may be specified).  
Isolation 500V DC. Exc/(Input+Output+Supply)/Earth  
Internal Fuse.  
Input over range up to typically 300%.  
RF Immunity: 80MHz-1GHz, 20V/m (1-3GHz  $\leq 10$ V/m)

#### TERMINATION

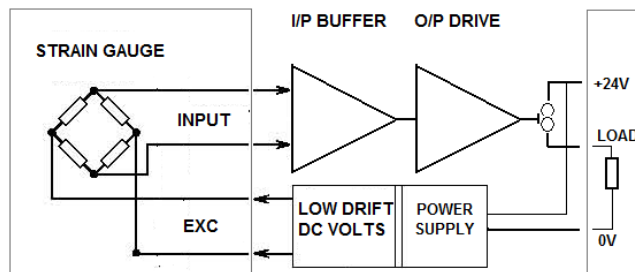
INPUT +	1
IINPUT -	2
EXC +	3
EXC -	4
Earth	5
	6
24V +	7
OUTPUT +	8
Com 0V	9
Earth	10
Scn	11
	12

#### FRONT VIEW



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

#### FUNCTION BLOCK DIAGRAM



#### ENVIROMENTAL CONDITION

Storage temperature: - 40 to +70 °C  
Operating Ambient: -15 to +55 °C  
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)