

5 Digit Digital Load Indicator

IDL-IJ-L

Function: IDL-IJ-L is a low cost yet highly flexible and easy to use 1/8 DIN scaleable panel mounting load indicator. It is designed for use in instrumentation systems with load cell or strain gauge inputs. The indicator comes with 2 precision alarm relays and a 10 Volt DC excitation voltage as standard. The alarm relays can be set anywhere in the working range of the load cell. Each relay can be configured as either High or Low and can have its hysteresis set to minimise relay chatter. The display can be preset, or adjusted by the user, to display engineering units. The indicators are 95 to 265 Volt AC or 11 to 30 Volt DC powered and provided with screw terminals for all connections.



Lee-Dickens Ltd

Tel: 01536-760156

SPECIFICATIONS

INPUTS:

4 wire only

DC Voltage

0.5 to 3.5 mV / Volt

Input Impedance

> 10M Ohms

Filtering

Adjustable 0 to 5 Seconds

Linearisation

There is no user linearization available on this model. If required please refer to the model IDL-INT-L

Logic Inputs

TARE and TARE RESET
Front panel pushbuttons or remote via screw terminals

DISPLAYS:

Display

5 digit RED LED

Optional Extra:

5 digit GREEN LED

Digit Size

14.2mm 0.56"

Full Scale Range

-19999 to +99999

Scaleable to required engineering unit range

Decimal Point

Programmed from front panel

Last Digit Round Up

Selectable 1, 2, 5, 10, 20 or 50

Front Panel Controls

Calibration, Tare, Reset, Max / Min and Alarms

SUPPLY:

Power Supply Voltage

95 to 265 Volt AC $\pm 10\%$ 50/60 Hz
Optional:

11 to 30 Volt DC

Power Required

4 Watts Max

Excitation

10 VDC up to 120mA

OUTPUTS:

Alarm Outputs:

2 Alarm SPCO relays
Contact Rating: 5A 250VAC
De-energise on Trip (Fail-Safe)
Response Time: 500mS
Front panel LED indicates when in Alarm

Analogue Output:

There is no analogue output available on this model. If required please refer to the model IDL-INT-L

GENERAL:

Accuracy

$\pm 0.1\%$ of range ± 2 counts

Thermal Stability Range

± 100 ppm / $^{\circ}\text{C}$

Thermal Stability Offset

± 50 ppm / $^{\circ}\text{C}$

Operating / Storage

Temperature Range

0 to $+50^{\circ}\text{C}$ / -10 to $+70^{\circ}\text{C}$

Operating / Storage

Humidity Range

0 to 95% RH non-condensing

Mounting

Panel mounting

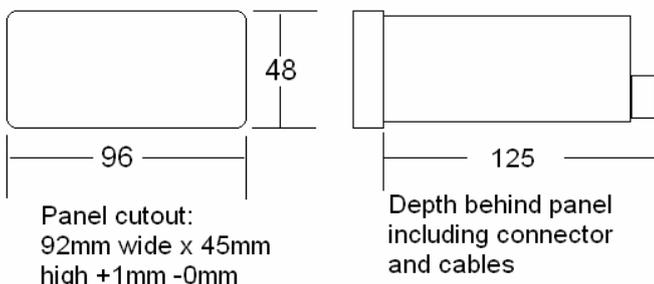
Protection Level

Fascia Panel to IP54 standard
IP67 with optional SPC4 Cover

Weight

300 gms

MECHANICAL DETAILS



TERMINATION DETAILS

Terminal

- 1 Load Cell Excitation +ve
- 2 Load Cell Excitation -ve
- 3 Signal +ve
- 4 Signal -ve and Remote Tare / Reset -ve
- 5 Remote Tare +ve
- 6 Remote Reset +ve
- 7 Alarm 1 N/C
- 8 Alarm 1 common
- 9 Alarm 1 N/O
- 10 Alarm 2 N/C
- 11 Alarm 2 Common
- 12 Alarm 2 N/O
- 13 Earth
- 14 Power Supply Neutral / -ve DC
- 15 Power Supply Line / +ve DC

ORDERING DETAILS

a) Give Details of Indicator type, i.e. IDL-IJ-L

b) Display Colour – normally RED – optionally GREEN

c) Give details of power supply, i.e. 240 Volt AC

d) Specify input type and range, i.e. 2.3mV/V

e) Specify display ranging (if LD to configure), i.e. 0 to 2000.0