

Operating Data

| | |
|--|---|
| Power supply | 24V DC nominal (18 to 36V DC), 7W max. Ripple pk-to-pk $\leq 4V_{pp}$ |
| Differential input signal | 0 to $\pm 10V$ ($R_i = 47\text{ k}\Omega$) (overload capacity up to max. $\pm 25V$) |
| Maximum output current | $\pm 200\text{ mA}$ ($\pm 300\text{ mA}$ at min. supply voltage) |
| Gain: Adjustment range Factory setting | 1 to 40 mA/V 4 mA/V |
| Offset: Adjustment range Factory setting | + 40 to - 40 mA output current 0 mA |
| Drive enable Drive disable | 12 to 36V ($R_i = 4,7\text{ k}\Omega$) < 8V, or open circuit |
| Dither amplitude: Adjustment range Factory setting Dither frequency: Adjustment range Factory setting | 0 to 20% 4% 150 to 500 Hz 400 Hz |
| Linearity | < 0,5% |
| Temperature coefficient | < 0,05% per °C (0.03% per °F) |
| -3 dB frequency response | > 1,5 kHz |
| Test terminals (E and F measured against D): E: output current F: dither | 1V = 500 mA 1V = 2,5% amplitude |
| Wiring recommendations, all connections | 0,5 to 2,5 mm ² (22 to 12 AWG) |
| Housing material | Polyamid 6.6 |
| Protection | IEC 529 class IP20 |
| Vibration: Vickers environmental specification | Class I level 2 (IEC 68-2-6) |
| Electromagnetic compatibility (EMC): Emission Immunity | IEC 529 class IP20 EN 50081-2 EN 50082-2 |
| Ambient temperature range: Operational Storage | 0° to +50°C (+32° to +122°F) -25° to +85°C (-13° to +185°F) |
| Mass | 0,11 kg (0.24 lb) |

Adjustments

Gain

Output current/input voltage ratio is increased by turning the potentiometer clockwise; decreased by turning counter-clockwise.

Dither Amplitude

The dither amplitude is measured as a percentage of the maximum value. Increase by turning the potentiometer clockwise; decrease by turning counter-clockwise.

Dither Frequency

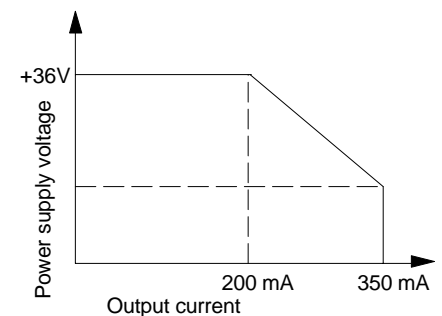
Increase by turning the potentiometer clockwise; decrease by turning counter-clockwise.

Offset

Turn the potentiometer clockwise to obtain a negative offset of output current; counter-clockwise for a positive offset.

Operating Range

If the required output current is above 200 mA and the load resistance is below 50 Ohm, the power supply voltage must be reduced in accordance with characteristics shown.

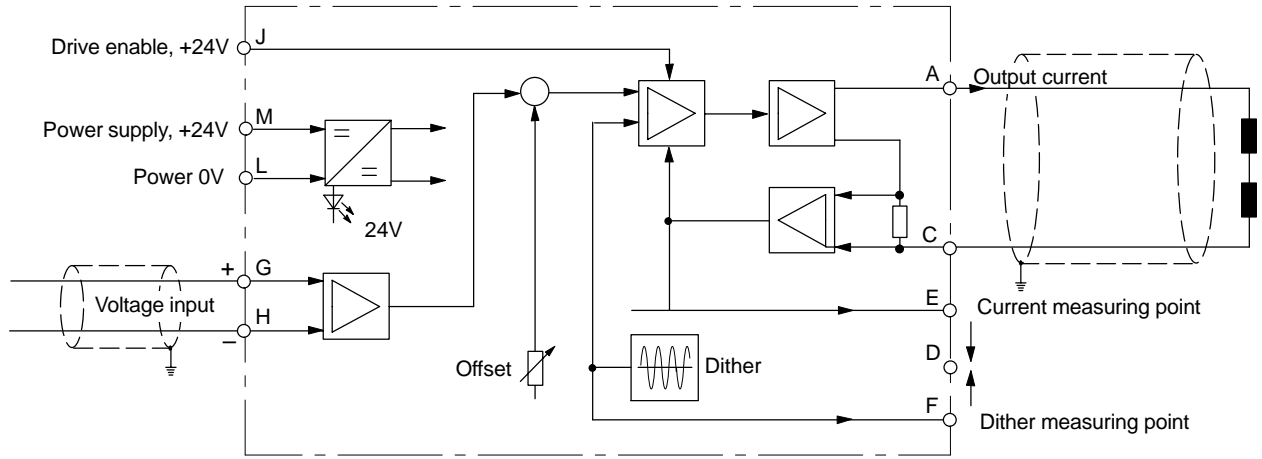


Warning: Electromagnetic Compatibility (EMC)

It is necessary to ensure that the unit is wired up in accordance with the connection arrangements shown in this leaflet. For effective protection, the user's electrical cabinet, the valve subplate or manifold and the cable screens should be connected to efficient ground points. The metal 7-pin connector part no. 934939 should be used for the integral amplifier.

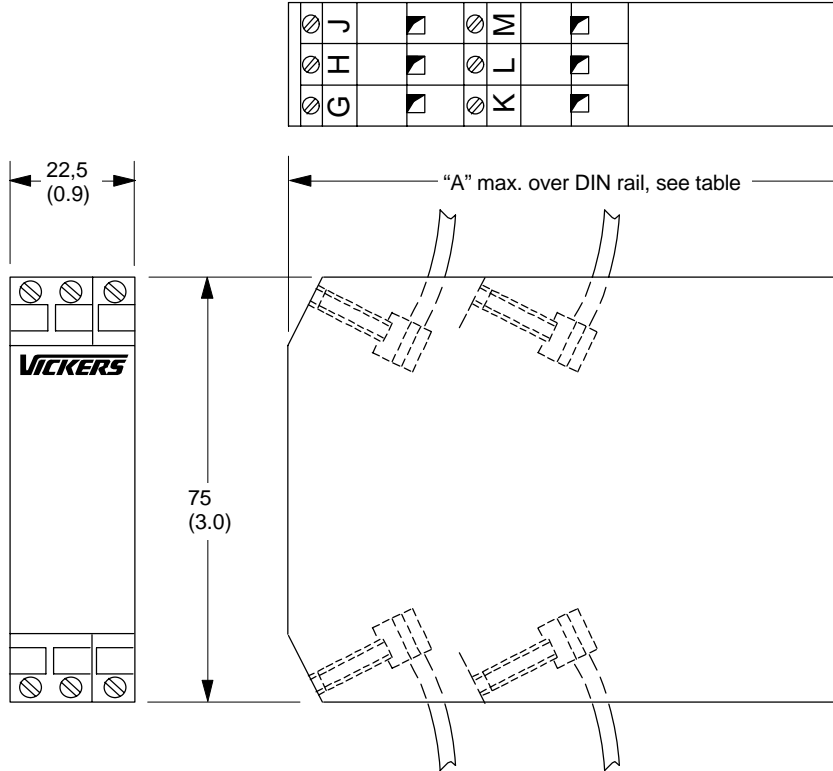
In all cases, both valve and cable should be kept as far away as possible from any source of electromagnetic radiation such as cables carrying heavy current, relays and certain kinds of portable radio transmitters, etc. Difficult environments could mean that extra screening may be necessary to avoid the interference.

Electrical Block Diagram



⏚ Customer's protective ground connection.

Installation Dimensions in mm (inches)



| | | | | |
|-----|---|-----|---|--|
| ⌀ J | ▣ | ⌀ M | ▣ | |
| ⌀ H | ▣ | ⌀ L | ▣ | |
| ⌀ G | ▣ | ⌀ K | ▣ | |

| Type | TS1 | TS3 | TS4/5 |
|------|------------|------------|--------------|
| A | 107 (4.22) | 102 (4.01) | 109,5 (4.32) |

| | | | | |
|-----|---|-----|---|--|
| ⌀ F | ▣ | ⌀ C | ▣ | |
| ⌀ E | ▣ | ⌀ B | ▣ | |
| ⌀ D | ▣ | ⌀ A | ▣ | |