

INNOVEC

CONTROLS PTY LTD

INNOVEC ISCX3 SIGNAL CONVERTER and ISOLATOR



ISCX3 Din Rail Mount signal isolator is a 85 to 265VAC powered instrument which accepts an analogue input of mA or volts and converts it to three independent isolated 4-20mA or 0-10VDC output signal. A 24VDC loop supply for the direct connection of 2 wire transmitters is included.

FEATURES

- Din rail or gear plate mounting
- 24VDC loop supply
- Power supply of 24VDC or 120/240VAC
- signal and power supply isolation
- 0.1% linearity
- Low cost - High performance
- Low input impedance on mA signals
- High input impedance on voltage signals
- Special ranges of inputs and outputs are available on request

The Innovec ISCX3 is a single analogue input to 3 independent analogue output signal converter.

The ISCX3 accepts many standard and non-standard input signals and generates a 4-20mA or 0-10VDC output signal. Most other standard process current or voltage output signals can be provided on request.

The ISCX3 because of its versatile input to output combinations is a very flexible interface module. The ISCX3 can be inserted into existing systems without loss of performance.

TECHNICAL SPECIFICATIONS

Input Details

- 0-1mA into 1000 Ohms
- 0-10mA into 50 Ohms
- 0-20mA into 25 Ohms
- 4-20mA into 25 Ohms
- 0-50mA into 10 Ohms
- 0-1VDC into 100K Ohms
- 1-5VDC into 100K Ohms
- 0-10VDC into 100K Ohms

Output Details

- Operational amplifier closed loop feedback circuit.
- Current output: 4-20mA into 500 Ohms.
- Voltage output: 0-10VDC into 10000 Ohms minimum

Performance

- + / - 0.1% of span (linearity and repeatability).

Isolation

- Power supply isolation and three way galvanic isolation of 1500 volts rms with option EI. The standard version incorporates three way galvanic isolation of 500 volts rms.

Environmental Parameters

- 0-70 degrees Celsius.
- 0-90% rh non-condensing.

Connection Details

Terminal 1: input low (-)	Terminal 16: Ground Supply
Terminal 2: mA input positive (+)	Terminal 17: 0VDC or Vac neutral
Terminal 3: volts input positive (+)	Terminal 18: 24VDC or 120/240VAC
Terminal 4: 24DC loop supply	Terminal 19: not used
Terminal 5: not used	Terminal 20: not used
Terminal 6: not used	Terminal 21: not used
Terminal 7: not used	Terminal 22: not used
Terminal 8: not used	Terminal 23: 4-20mA out (+) channel 3
Terminal 9: not used	Terminal 24: 4-20mA out (-) channel 3
Terminal 10: not used	Terminal 25: not used
Terminal 11: not used	Terminal 26: 4-20mA out (+) channel 2
Terminal 12: not used	Terminal 27: 4-20mA out (-) channel 2
Terminal 13: not used	Terminal 28: not used
Terminal 14: not used	Terminal 29: 4-20mA out (+) channel 1
Terminal 15: not used	Terminal 30: 4-20mA out (-) channel 1

Instrument Power Supply

- Nominal 24VDC (18-36VDC) or 120/240VAC 47-63 Hz.

Transducer Power Supply

- 24 Volts DC at 30mA for powering 2 wire transmitters.

Weight

- 400gms.

Case Details

- Width: 100mm.
- Height: 75mm.
- Depth: 110mm.

Mounting Details

- Din rail mounting on C rail.

Options

- Weatherproof enclosure: WP
- Extended power supply isolation to 1500Vrms

Ordering Information

- Model/input/output/power supply/options.
- Sample no: ISCX3/4-20mA/4-20mAx3/24VDC/EI.
- All units shipped factory calibrated 4-20mA to 4-20mA.