

# Specifications

**Input range** 4–20mA (up to 5 channels)

**Output** 4–20mA, load resistance 875Ω at 24V DC

**Power supply** 6.5–28V

**Input compliance voltage** 5V max

**Input voltage protection** to 30V inadvertently supplied

**Current protection** by PTC

**Specification range** –4 to 158°F (–20 to 70°C)

**Storage temperature** –4 to 185°F (–20 to 85°C)

**Operating humidity** 5–85%RH max (non-condensing)

**EMC compliance** Emissions (EN 61326-1). Immunity (EN 61326-1). Safety (EN 61010-1).

**Accuracy** <0.05% of span (typical)

**Linearity and repeatability** < 0.03% of span (typical)

**Ambient drift** < 0.01% of span/°C

**RF immunity** <0.5% of span

**Isolation voltage test** 2500V RMS

**Working isolation voltage** 300V AC

**Response time** <2ms (0-90%, 100-10%)

**Calibration temperature** 68–82°F (20–28°C)

**Case (H x W x D)** 3.54 x 0.49 x 4.41"  
(90 x 12.5 x 112mm), DIN rail mount

## Order Codes

<b>SLIM-1I</b>	1 channel	<b>SLIM-4I</b>	4 channels
<b>SLIM-2I</b>	2 channels	<b>SLIM-5I</b>	5 channels
<b>SLIM-3I</b>	3 channels		

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## SLIM 4–20mA Isolators

# Sleek, fast, accurate.



# Sleek

Save space and reduce costs

- ✓ With up to 5 isolated channels in a compact 0.5" (12.5mm) case, this isolator is one of the slimmest of its kind. Only 0.1" (2.5mm) DIN space per channel!

# Fast

Right from the word GO

- ✓ No fuss installation: no DIP switches, no calibration, simple wiring. Experience speed from the moment you take it out of the box
- ✓ Lightning fast 2msec response time ensures accurate measurement of rapidly changing signals

# Accurate

High accuracy and noise resistance

- ✓ With an accuracy of better than 0.05%, this unit sets the standard for isolators of its kind
- ✓ Designed for stable, accurate performance even in noisy environments, with excellent resistance to electromagnetic interference

# Why go SLIM?

Define Instruments SLIM isolators offer a low cost isolation solution with top-of-the-line specs: fast response rate, high accuracy, noise resistance, and a super compact design.

- ✓ 4–20mA DC input
- ✓ 4–20mA DC output, loop powered
- ✓ Your choice of 1–5 isolated channels



Define SLIM isolators receive 4–20mA process current inputs, and provide 4–20mA loop powered output signals. They are ideal for measuring signals commonly produced by position, acceleration, current, and a vast range of other industrial sensors.

Along with high speed, accuracy and stability, these isolators also offer **input and output protection** for polarity and inadvertent connection to 30V DC.

With **up to 5 independent channels** which are isolated up to 2.5kV, your control system will be protected from transients and noise:

- › No more signal cross talk
- › No more ground loops
- › DC/AC common mode voltage rejection
- › Over range protection