

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)

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

SLIM –1I	4–20mA isolator - 1 channel
SLIM –3I	4–20mA isolator - 3 channels
SLIM –5I	4–20mA isolator - 5 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
- ✔ 1, 3 or 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