

## Installation Environment

- IP 40
- Requires installation in a protective panel or enclosure
- For use in Pollution Degree 2 Environment
- -10 to +60°C operating ambient
- 10-90% RH non-condensing
- See data sheet for % span/°C stability specifications

DIN models must be mounted on a horizontal DIN rail on a vertical panel with the ventilation slots oriented above and below. Maintain at least 1" (25 mm) clearance above and below housing ventilation slots for adequate air flow.

To ensure accuracy in applications with wide ambient temperature variations, enclosure ventilation and/or temperature management is required to maintain device temperature at a constant level.

Exceeding specified ambient conditions may cause unexpected operation and/or irreversible damage.

If this equipment is not used as specified, safety and reliability may be impaired.

API maintains a constant effort to upgrade and improve its products. Specifications are subject to change without notice. Consult factory with your specific requirements.

## RoHS and REACH

Absolute Process Instruments (API) declares that APD series signal conditioners are in conformity with the provisions of the following EC directives when installed in accordance with the installation instructions contained in the product documentation.



2014/35/EU: Low Voltage Directive

2014/30/EU: EMC Directive

2011/65/EU: Restriction of certain hazardous substances (RoHS).

2015/863/EU: Restriction of certain hazardous substances (RoHS-3).

2012/19/EU: Waste electrical and electronic equipment (WEEE).

API signal conditioning and signal interface products do not involve the sale or manufacture of "substances" or "preparations", and do not involve "intentional release of substances". Therefore there is no registration or authorization requirement for these API products.

We believe this information is accurate and is offered in good faith. This information is subject to revision as required by changes in regulations.

## Disposal

Disposal of Electrical & Electronic Equipment (Applicable throughout the European Union and other European countries with separate collections programs).

This symbol, indicates that this product should not be treated as household waste when you wish to dispose of it.



Instead, it should be sent to an applicable collection point for the recycling of electrical and electronic equipment.

The recycling of materials will help to protect and conserve natural resources and prevent potential negative effects on human health and the environment, which could otherwise arise from inappropriate waste handling.

Please contact your local waste disposal authority for information about recycling this product and the location of your nearest designated collection point.

You may also return this product to via pre-paid shipping to Absolute Process Instruments or your supplier for proper disposal.

## Declaration of Conformity

For API APD series signal conditioning and signal interface products The following harmonized standards and technical specifications have been applied:



EN 61000-6-4:2002: Electromagnetic emission, industrial environment

EN 61000-6-2:2006: Electromagnetic immunity, industrial environment

EN 61010-1:2001: Safety

EN 60664-1: Use in pollution degree environment 2 or less IEC/EN 61010-1:2010, Ed. 3.0: Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements

EN 61326-1:2013: Electrical equipment for measurement, control and laboratory use. EMC requirements - General requirements.

EN 55011:2009: Industrial, scientific and medical equipment. Radio frequency disturbance characteristics. Limits and methods of measurement - Radiated Emissions.

EN 61000-4-2:2009: Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test.

EN 61000-4-3:2009: Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio frequency, electromagnetic field immunity test

EN 61000-4-4:2004: Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Electrical Fast Transient

EN 61000-4-5:2006: Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Electrical Surge Test

EN 61000-4-6:2009: Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Conducted Immunity

EN 61000-4-8:2001: Electromagnetic compatibility (EMC) - Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test

EN 61000-4-11:2004: Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Line Voltage Drop-Out

EN 50581:2012: Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances.

Year of CE marking: 2020

## Electrical Connections

### Precautions

WARNING! All wiring must be performed by a qualified electrician or instrumentation engineer.

See product datasheet wiring diagrams for terminal designations and wiring examples. Consult factory for assistance.



WARNING! Avoid shock hazards! Turn signal input, output, and power off before connecting or disconnecting wiring, or removing or installing module.

### Précautions

ATTENTION! Tout le câblage doit être effectué par un électricien ou ingénieur en instrumentation qualifié.

Voir le diagramme pour désignations des bornes et des exemples de câblage. Consulter l'usine pour assistance.



ATTENTION! Éviter les risques de choc! Fermez le signal d'entrée, le signal de sortie et l'alimentation électrique avant de connecter ou de déconnecter le câblage, ou de retirer ou d'installer le module.

### Power



It is important to power this device within the acceptable voltage ranges. See datasheet Power specifications for power consumption.

Standard: 85-265 ~ 50/60 Hz or 60-300 ---

D option: 9-30 --- or 10-32 ~ 50/60 Hz

### Wire Size

All models: 14 AWG or 2.08 mm<sup>2</sup> max, wire size

### Input Ranges



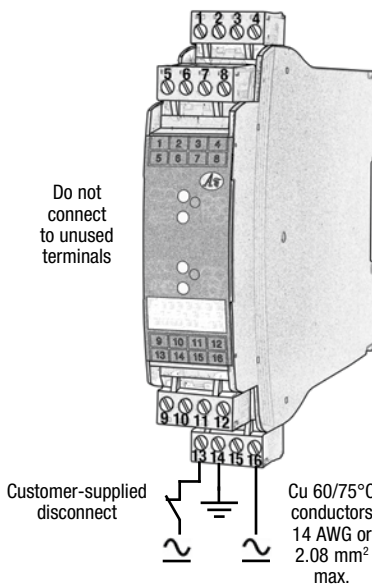
Exceeding the specified input range may cause unexpected operation and/or irreversible damage.

If there are questions concerning the specifications, please contact the factory.

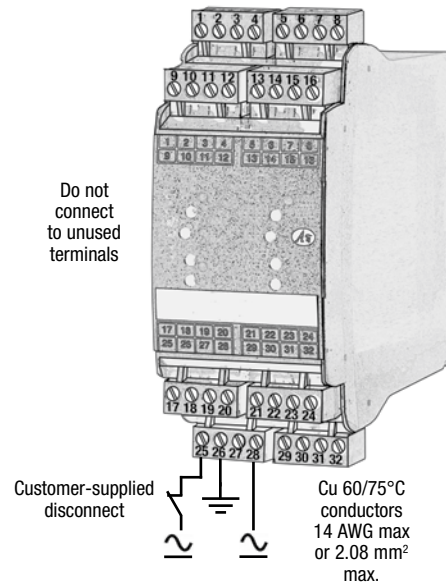
### Input and Output Connections

See product datasheet for specific input and output connections and wiring diagrams.

## 22.5 mm Wide DIN Housing Power Connections



## 45 mm Wide DIN Housing Power Connections



## Product Information

Product service

[www.api-usa.com/signalconditioner-service](http://www.api-usa.com/signalconditioner-service)

Warranty information, terms and conditions of sale

[www.api-usa.com/pdf/terms.pdf](http://www.api-usa.com/pdf/terms.pdf)