

DATASHEET

Digital / Analog Input Adapter

Version: 1.1
Updated: 24-01-2024

GTIN:
MPN:

05430002103129
CRLNKPID2107



About this product

The Digital / Analog Input Adapter by Crodeon Technologies can be used to read: dry contacts, reed contacts, open collector, open drain, NPN, PNP, as well as other digital signals. These inputs can be expressed as 0-1, ON-OFF, Open-Closed... or read as a pulse counter to express an amount (water flow, boxes moved, door openings, etc.).

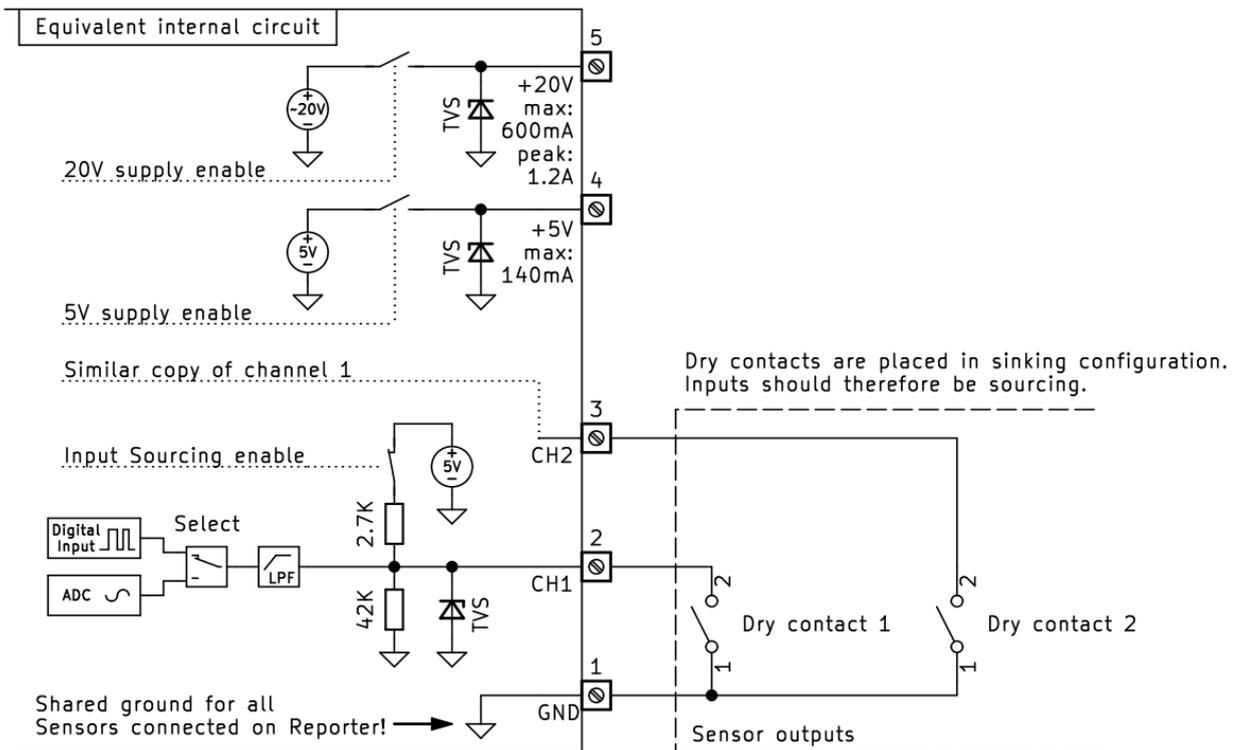
The adapter can also be used to read analog voltage signals 0-10V and 0-5V, such as ratiometric pressure sensors or analog water level sensors.

Specifications

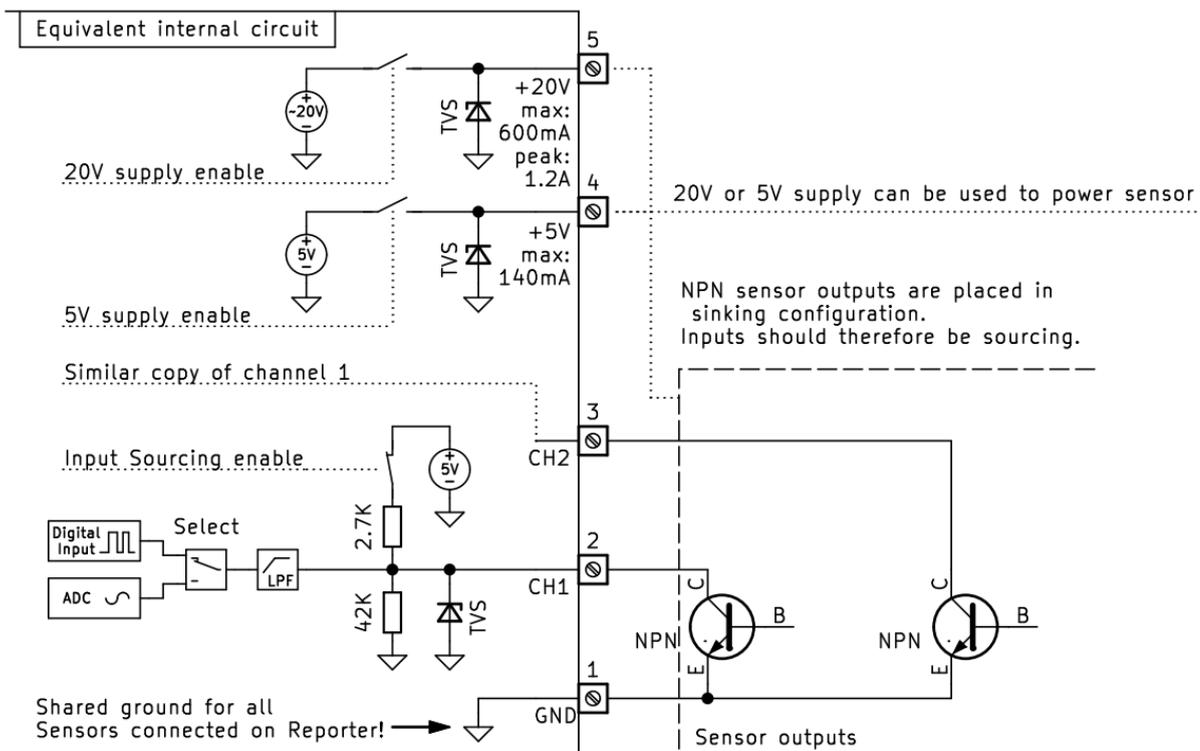
General	
Brand	Crodeon®
Environmental protection class	IP65
Dimensions	123 mm x 32 mm x 32 mm
Weight	50 grams
Operational temperature range	-10°C to +40°C
Input types (software configurable)	Sinking / sourcing / analog
Channels	2 (non-isolated inputs)
Supply 1	5 V 140 mA max
Supply 2	15 - 20 V (derived from Reporter power port) 600 mA max 1.2 A peak Make sure the power supply on Reporter's power port is sufficiently strong
Inputs - Sinking Configuration	
Voltage high	15 - 30 V
Voltage low	0 - 2 V
Frequency	5 kHz max
Pulse time	30 µsec min
Inputs - Sourcing Configuration	
Voltage	5 V at 2 mA
Frequency	9.5 kHz max
Pulse time	17 µsec min
Inputs - Analog Configuration	
Voltage	0 - 10 V (compatible with 0 - 5 V)
Input impedance	42 KΩ
Resolution	10 bit
Measurement interval	Configurable online (options are 30 sec, 1 min, 2 min, 5 min, 10 min, 15 min, 20 min, 30 min, 1 hour, 2 hours)

Connection diagrams

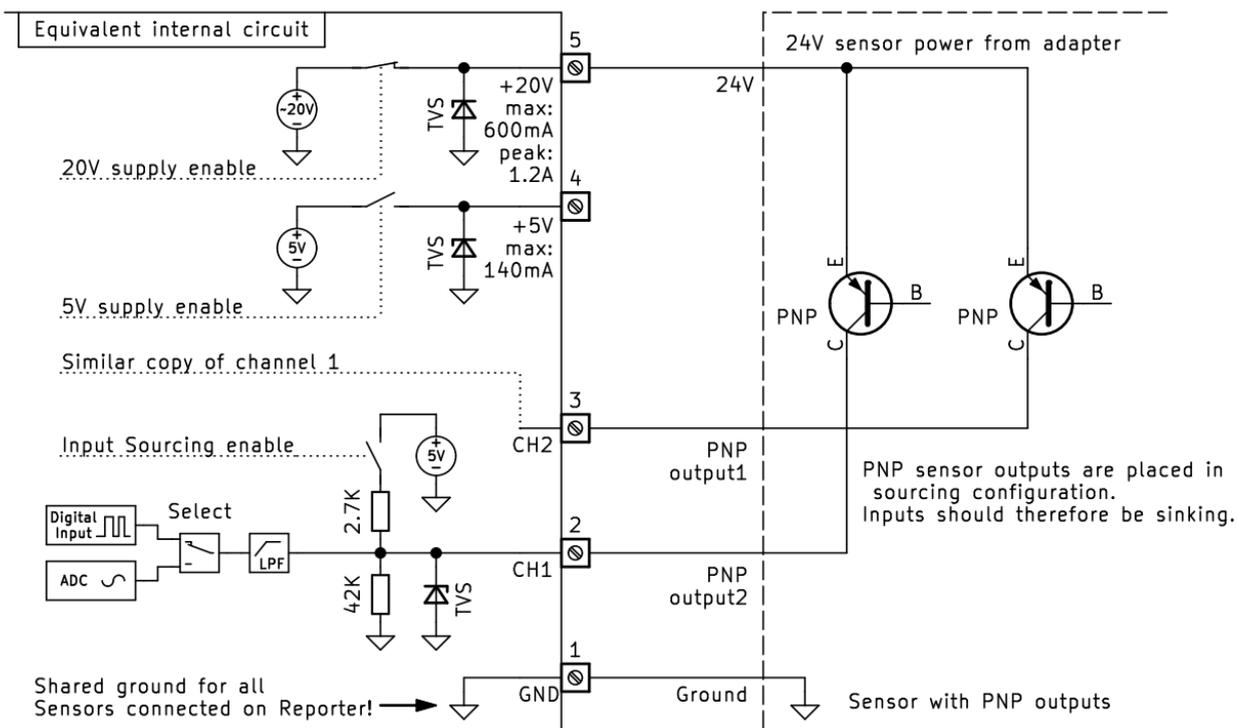
Dry contacts



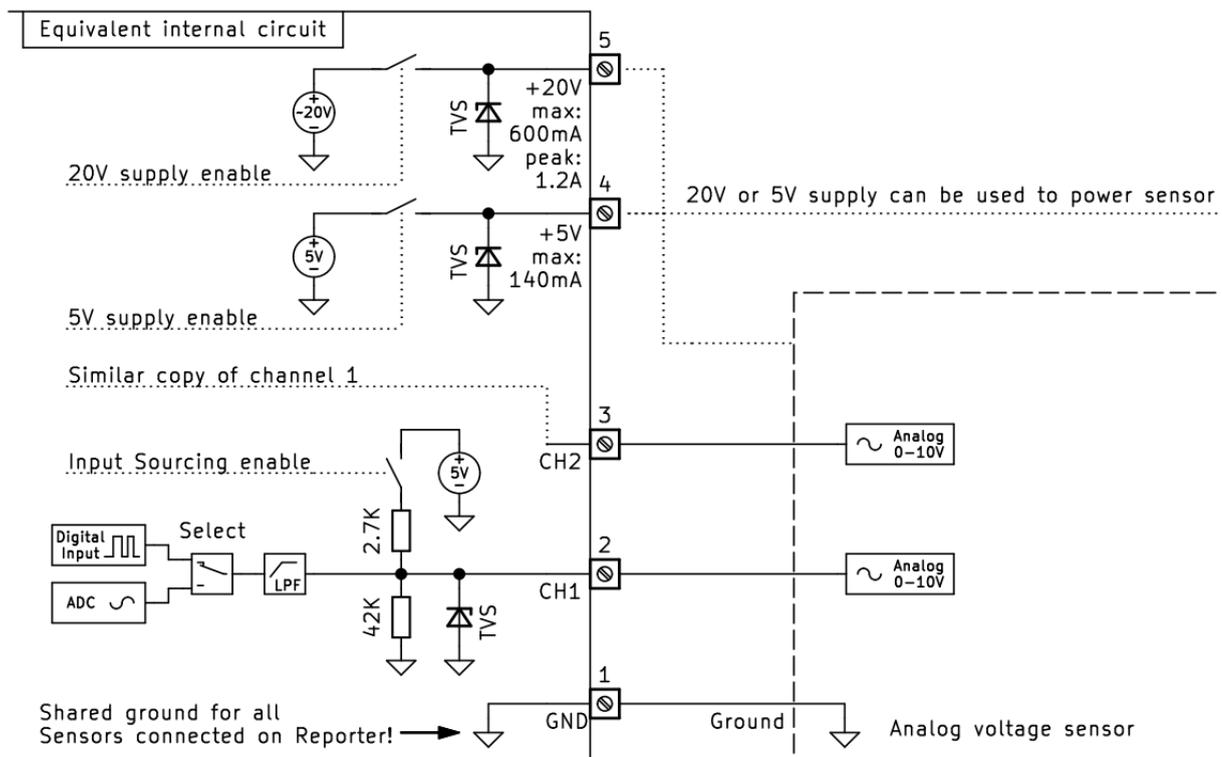
NPN output or Open Collector



PNP output



Analog voltage 0-10V or 0-5V



How to use

Sensor data is transmitted through one cable that connects to your Reporter. This leaves three connectors for you to attach different sensors. These connectors can be used to measure additional parameters using different sensors.

Visit the Crodeon webshop at www.crodeon.com for a complete overview of all compatible sensors.

Reporter is powered by grid or solar power. During the night or a power outage, the device will keep operating for between 3 and 14 days, depending on the measurement interval and the number of sensors connected.



Crodeon Dashboard

Sensor data is transmitted in real-time to our cloud platform, the Crodeon Dashboard, using Reporter's cellular data connection. As a customer, you can consult the data on the Crodeon Dashboard. Create your free account at cloud.crodeon.com for more information about this cloud-based web application.

Alarm settings and the measurement interval of your Reporter and sensors can be configured on the Crodeon Dashboard.

API Access

The Crodeon Dashboard includes a third-party Rest API that allows you to integrate this sensor data into your own platform. Visit crodeon.stopligh.io for more information about the API.



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