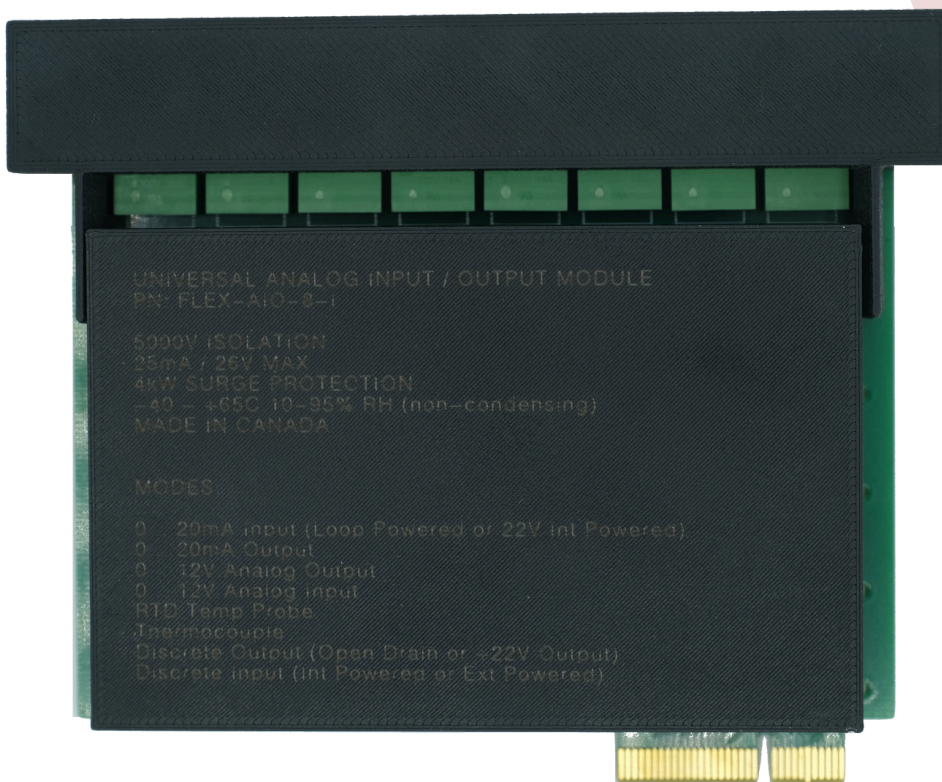
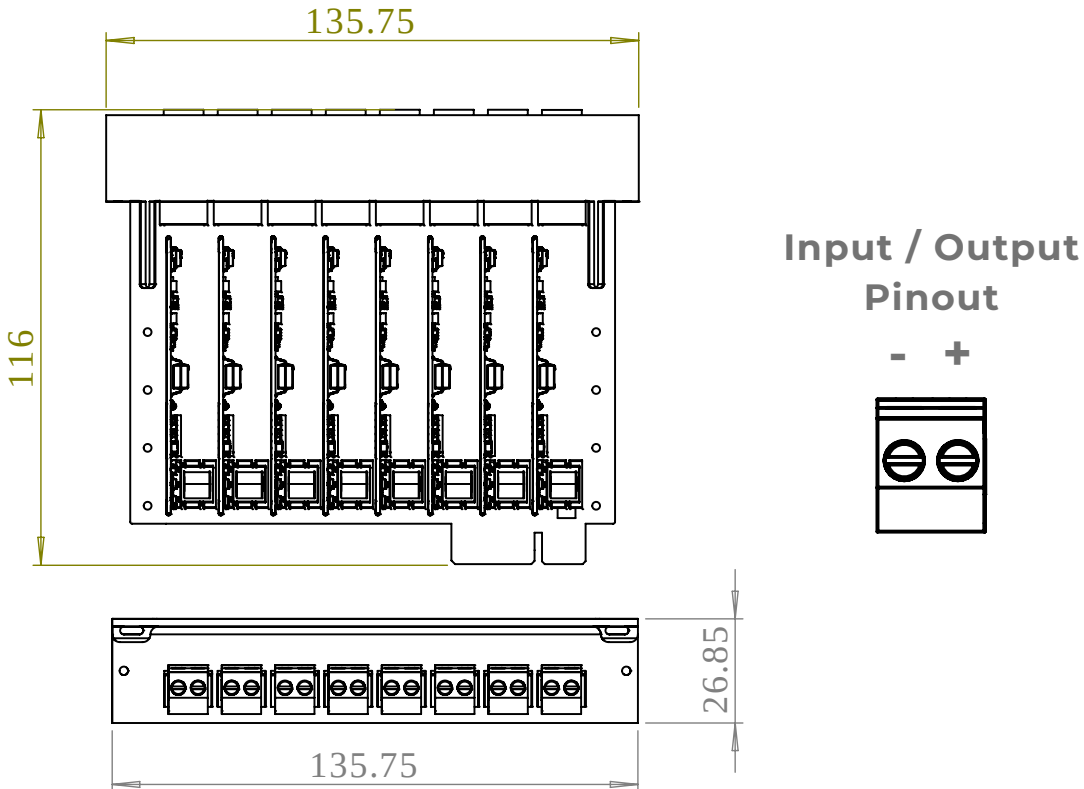


# FlexCard

## FLEX-AIO-8-I

8 Ch. Universal Analog / Discrete  
Input/Output Card





**ELECTRICAL RATINGS**

0-12V DC Analog In/Out  
 0-20 mA In/Out (Powered Loop/Unpowered Loop)  
 Discrete 0-22V Input/Output  
 RTD Temp and Thermocouple Input

5kV Isolation, 4kW Surge Protection

Sample Rate: 5 Hz

**PHYSICAL SPECIFICATION**

Casing Material: Fibre Reinforced ABS

Dimensions: 116mm H x 135.75mm W x 26.85mm L, Weight: 162.6 grams

**OPERATING ENVIRONMENT**

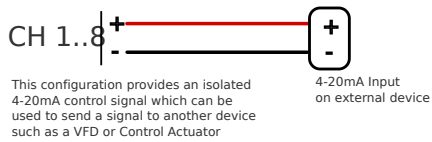
Operating Temperature: -40 °C to 65 °C, Humidity: 10 % to 90 % non-condensing

**REGULATORY & TYPE APPROVALS**

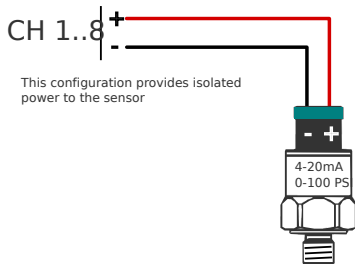
Regulatory: Resistor Components: KTR18EZPF4993  
 ISO9001 / IATF16949 certification

EXAMPLE APPLICATIONS

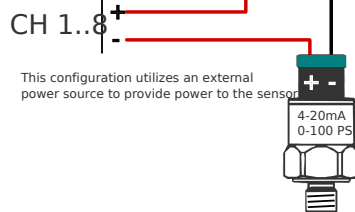
**mA Output (Internal Power)**



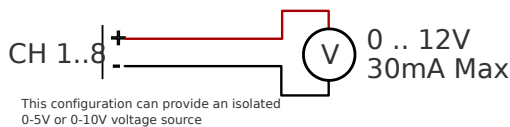
**mA Input (Internal Power)**



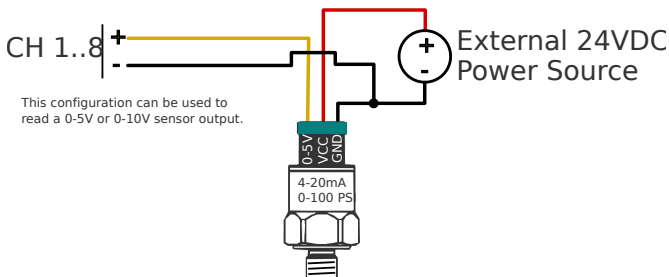
**mA Input (External Power)**



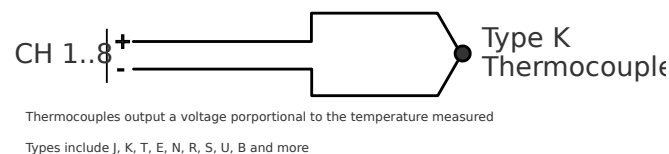
**0 .. 12V Analog Output**



**0 .. 12V Analog Input**

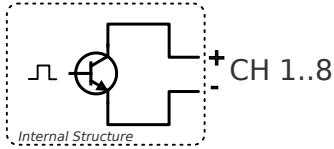


**Thermocouple**

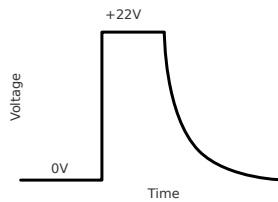
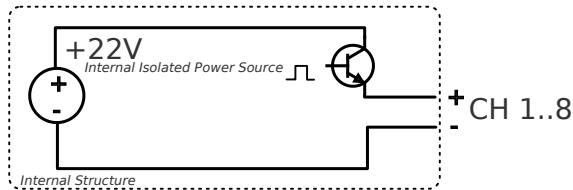


EXAMPLE APPLICATIONS

**Discrete Output (Open Drain / Sink)**

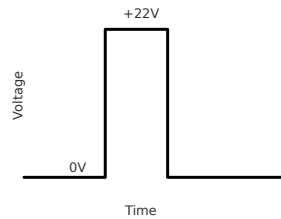
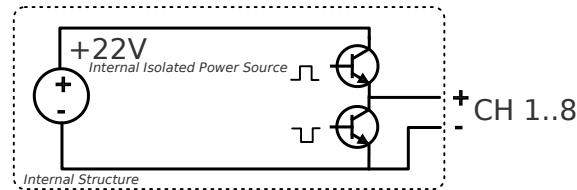


**Discrete Output (+22V Output)**

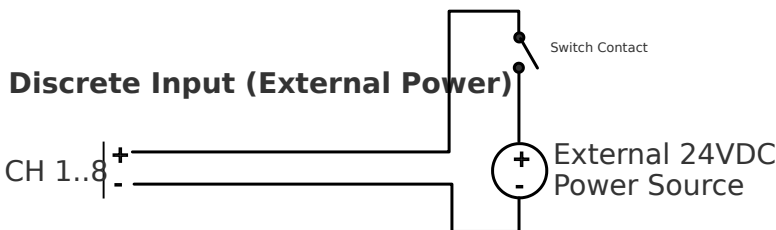


Longer fall time due to the output not being grounded between pulses. Higher line capacitance will create longer fall duration.

**Discrete Output (+22V/0V Push Pul)**

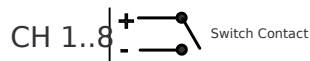


This is the preferred output type for driving pulse type devices as it grounds the output signal between pulses.



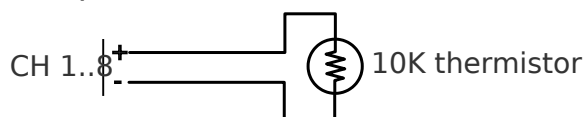
This mode measures the voltage between the input terminals to detect a HIGH or LOW signal.

**Discrete Input (Internal Power)**



This mode detects a switch closure by outputting a fixed voltage and measuring load current.

**RTD / Thermistor**



This configuration can be used to measure the temperature value of resistance type temperature probes. PT100, PT1000, 10K Thermistors, etc..