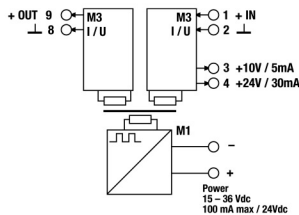


- Input: 19 selectable ranges
- Output: 7 selectable ranges
- Insulation: 3.0 kVac, 3-way isolation
- Auxiliary supply for loop powered sensor<sup>2</sup>
- Auxiliary supply for potentiometer

**NOTE**  
Factory setting: 0...10 V Input / 0...10 V output



CODE	XCAIPI03	
<b>TYPE</b>	CAIPI03	
<b>INPUT TECHNICAL DATA</b>		
Signal type IN	analogue	
Input range IN	19 programmable ranges (see tab. 1)	
Maximum voltage current signal IN	15 V / 30 A	
Input impedance IN	1 MΩ (voltage input) / 50 Ω (current input)	
Parametrization IN	DIP switch	
<b>OUTPUT TECHNICAL DATA</b>		
Signal type OUT	analogue	
Output range OUT	7 programmable steps (see tab. 2)	
Maximum output signal OUT	12 V / 25 mA	
Load impedance OUT	≥ 10 kΩ (voltage output) / ≤ 500 Ω (current output)	
Ripple OUT	—	
Status indication OUT	LED	
Parametrization OUT	DIP switch	
<b>GENERAL TECHNICAL DATA</b>		
Power supply voltage	24 Vdc (15...36 Vdc)	
Current consumption	100 mA (24 Vdc)	
Accuracy	0.1% FSR (23°C)	
Linearity error	< 0.1% FS	
Temperature coefficient	—	
Setting time	—	
Transmission frequency	400Hz...1kHz	
Resolution	—	
Rise time	—	
Operating temperature range	-10...+65°C	
Insulation	3.0 kVac / 60 s	
Insulation type	3-way (IN / OUT1 / power)	
Standard approvals	IEC 664-1, DIN VDE0110.1	
EMC Standards	EN 50081-2, EN 50082-2	
Overvoltage category / Pollution degree	II / 2	
Protection degree	IP 20	
Connection terminal IN / OUT	2.5 mm <sup>2</sup> / 2.5 mm <sup>2</sup> (screw)	
Housing material	UL94V-0 plastic material	
Dimensions	22.5x108x119 mm	
Approximate weight	150 g	
Mounting informations	vertical on a rail, distance 5 mm from adjacent components	
<b>APPROVALS</b>	CE	
<b>ACCESSORIES</b>		
Mounting rail (IEC60715/TH35-7.5)	PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB	

**TAB.1 - INPUT SELECTION TABLE**

INPUT RANGE		SW1 (INPUT)							
UNIPOLAR	BIPOLAR	1	2	3	4	5	6	7	8
0 - 60 mV	± 60 mV								
0 - 100 mV	± 100 mV	•							
0 - 500 mV	± 500 mV			•					
0 - 1 V	± 1 V				•				
0 - 2 V	± 2 V						•		
0 - 5 V	± 5 V			•	•	•	•		
0 - 10 V	± 10 V							•	
0 - 5 mA	± 5 mA	•		•					
0 - 10 mA	± 10 mA	•			•				
0 - 20 mA	± 20 mA	•					•		
4 - 20 mA	—	•							•

**TAB.2 - OUTPUT SELECTION TABLE**

OUTPUT RANGE	INPUT TYPE	SW2 (OUTPUT)								SW3
		1	2	3	4	5	6	7	8	
0 - 5 V	UNIP.	X		•					•	U
	BIP.	X	•						•	U
± 5 V	UNIP.	X		•					•	U
	BIP.	X		•					•	U
0 - 10 V	UNIP.	X		•					•	U
	BIP.	X	•						•	U
± 10 V	UNIP.	X		•					•	U
	BIP.	X		•					•	U
0 - 20 mA	UNIP.	X		•				X		I
	BIP.	X	•					X		I
± 20 mA	UNIP.	X		•				X		I
	BIP.	X		•				X		I
4 - 20 mA	UNIP.	X				•	•	X		I
	BIP.	X	•			•	•	X		I

• = ON  
= OFF  
X = ANY

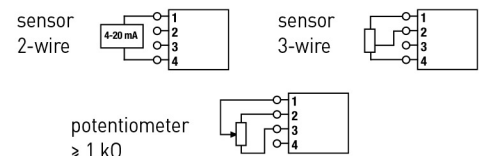
## INPUT STAGE

The module can manage single-pole and two-pole inputs selecting between steps (see TAB. 1):

- 0...60 mV ± 60 mV
- 0...100 mV ± 100 mV
- 0...500 mV ± 500 mV
- 0...1 V ± 1 V
- 0...5 V ± 5 V
- 0...10 V ± 10 V
- 0...5 mA ± 5 mA
- 0...10 mA ± 10 mA
- 0...20 mA ± 20 mA
- 4...20 mA

The input stage provides two power supplies (10 V and 24 V) for remote sensors. It is possible to run potentiometers and directly power 4...20 mA two-wire loop sensors.

Connection examples:



## OUTPUT STAGE

The module provides single-pole and two-pole output signals with the following steps (see Tab. 2):

- 0...5 V ± 5 V
- 0...10 V ± 10 V
- 0...20 mA ± 20 mA
- 4...20 mA