

PLIO03 Tech-Note

Multifunction I/O Module

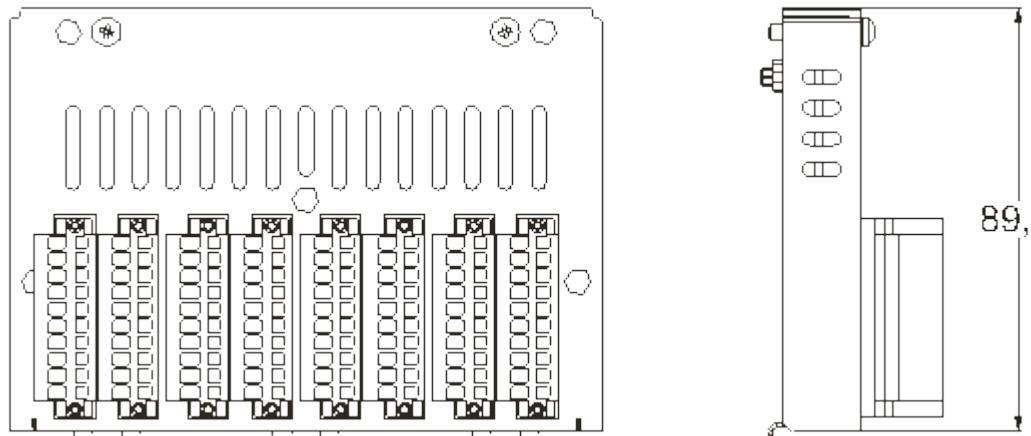
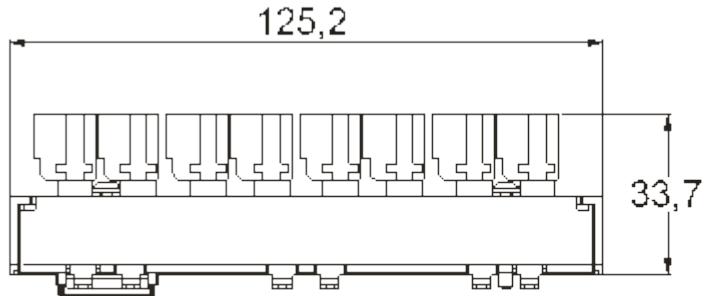
- 20 Digital Inputs, configurable as counter/encoder channels
- 12 Digital Outputs
- 4 Analog Inputs configurable for voltage, current or temperature measurement. When configured in Single-ended mode, up to 8 voltage measurement inputs are possible
- 1 PT100 input for cold junction compensation of thermocouples
- 4 Analog Outputs configurable for voltage or current



PLI003 - Technical Data

Digital Inputs	
Number of channels	20
Type of channel	Source active high (+24Vdc) inputs.
Input Voltage range	12 - 30 Vdc
Input impedance	3,3 KOhm
Optical isolation	Yes
Isolation	1500 Vdc
Input filter	Programmable 0.1ms to 20ms
Special input modes	Software configuration for 2 blocks of 4 inputs. Each block can be configured as encoder, counter or frequency
Encoder mode	2 blocks of 4 digital inputs can be programmed as Encoder Phase A, B, Zero and Machine Zero Index. Max frequency 1MHz. 32bit counter
Counter mode	2 blocks of 2 digital inputs can be programmed as pulse and gate counter inputs. Max frequency 1MHz. 32bit counter
Frequency mode	2 digital inputs can be programmed as frequency measurement inputs. Max frequency 20 KHz. Minimum frequency 1 Hz
Digital Outputs	
Number of Channels	12
Type of channel	Source type with feedback of output driver fault status
Output Voltage range	12 - 30Vdc
Nominal Output current	0,5A
Optical isolation	Yes
Output protection	Overcurrent and over temperature protected driver
Analog Inputs	
Number of channels	4 differential or 8 single ended
Description	Individually programmable.
Optical isolation	No
Measurement type	Industry standard voltage or current. Temperature measurement with trasductors such as thermocouples and PT100/ RTD
A/D resolution	12 bits
Accuracy @ 25°C	0,1% typ.
Voltage input range and accuracy	Bipolar: ±100mV 0,1% F.S. ±500mV 0,2 % F.S. ±1V 0,1% F.S. ±5V 0,1% F.S. ±10V 0,1% F.S. Unipolar: 0-1V 0,1% F.S. 0-10V 0,1% F.S."
Voltage Input absolute input range	+/- 15Vdc (Analog ground referenced)
Current input range	0-20mA 4-20mA
Current mode input impedance	200 Ohm
Voltage mode input impedance	10 MOhm
Thermocouple input	E, J, K,R,S,T types
Cold Junction compensation	External with dedicated PT100 input
PT100 (RTD) input	2, 3 or 4 wires transductor interface type with break and short circuit detection
Analog Outputs	
Output channels	4
Analog output type	Voltage or current
Optical isolation	No
D/A Resolution	12 bit
Output voltage type	Single-ended +/-10Vdc
Output voltage load impedance	1 KOhm min.
Output voltage linearity error	0,15%
Output current type	Current source type 0-20mA or 4-20mA
Output current load impedance	470 ohm max.
Output current linearity error	0,20%
Connectors	
Connector Type	Omnimate Range header/plugs 3,5mm – 10 contacts (two pieces terminal blocks)
Removable Plug Connector	Spring type contact Part number: 1691190000 BLZF 3.50/10/180F SN BK BX"
Approvals	
CE	Emission EN 61000-6-4, Immunity EN 61000-6-2 for installation in industrial environments
UL	cULus: UL508
UL	cULus: Class I Div. 2
ATEX	Yes
IECEx	Yes
DNV-GL	Yes
LR	Yes
EU MR	Yes
RCM	Yes

PLIO03 - Technical Data



Ordering Information

Model	Part Number	Description
PLIO03	+PLIO03UOP1	Multifunction I/O Module. 20 DI, 12 DO, 4 AI, 4 AO

ptn0369 - Version 1.8
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