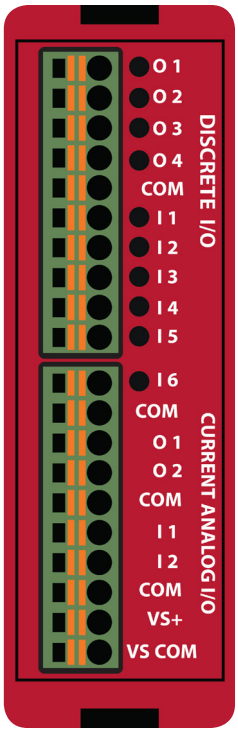
EZ I/O™

Combo Discrete and Analog Current Module

The combo discrete and analog modules are ideal for small machine applications requiring less I/O. They give you the cost benefit you normally find it in fixed I/O PLCs, but also provide flexibility & expandibility for your I/O needs as additional I/O modules can be added to the EZRack PLC.



EZRPL-IO-6DI4DO-2ANI2ANOC

Pinout Information			
1	Digital Out - 1	11	Digital In - 6
2	Digital Out - 2	12	Common_In
3	Digital Out - 3	13	Analog Out - 1
4	Digital Out - 4	14	Analog Out - 2
5	Common	15	Common
6	Digital In - 1	16	Analog In - 1
7	Digital In - 2	17	Analog In - 2
8	Digital In - 3	18	Common
9	Digital In - 4	19	VS+
10	Digital In - 5	20	VS Common

Digital Output Module Specifications	
Number of Outputs	4 sourcing
Output Voltage Range	11-30 VDC
Peak Voltage	50 VDC
Maximum Steady State Output Current	0.1A per output, 0.4A max per module @ 50°C
Maximum Leakage Current	100µA @ 50 VDC @ 50°C
ON Voltage Drop	2 VDC @ 0.5A
Maximum Inrush Current	0.8A for 10ms
OFF to ON Response	< 2µs
ON to OFF Response	<10µs
Status Indicators	Red LED for each output
+V Terminals & Commons	One V^+, 3 Commons Separate
Short Circuit Protection	1 Amp per module, turns off outputs upon short circuit detection
Base Power Required (5V)	80mA, all outputs on
Optical Isolation	2500 Volt
Wires	14 to 24 AWG

Digital Input Module Specifications	
Number of Inputs	6
Input Voltage Range	11 - 30 VDC
Peak Voltage	40 VDC
Input Current	1.92 mA @ 12 VDC 4.0 mA @ 24 VDC
Maximum Input Current	5 mA @ 28 VDC
Input Impedance	5.6k @ 10-28 VDC
ON Voltage Level	> 10 VDC
OFF Voltage Level	< 2 VDC
Min. ON Current	1.5 mA
Min. OFF Current	0.2 mA
OFF to ON Response	2-4 ms, typical 3 ms
ON to OFF Response	2-4 ms, typical 3 ms
Status Indicators	Red LED for Source Green LED for Sinking
Commons	1 point (Common_In)
Base Power Required (5V)	Typical 30mA (all inputs on)
Optical Isolation	2500 Volt
Wires	14 to 24 AWG

Uticor AVG Pty Ltd T: 61 2 9482 4000
W: www.ezautomation.com.au
W: www.uticor.com

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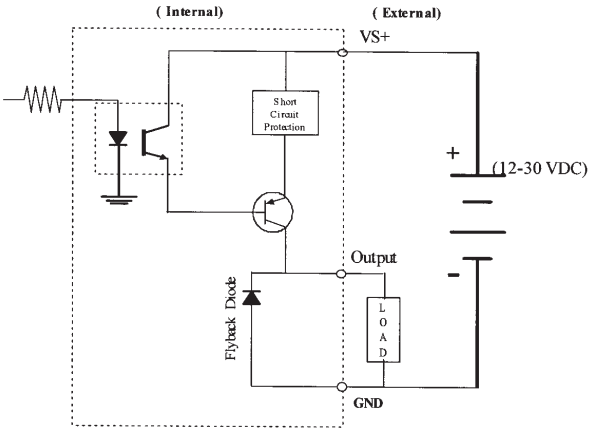
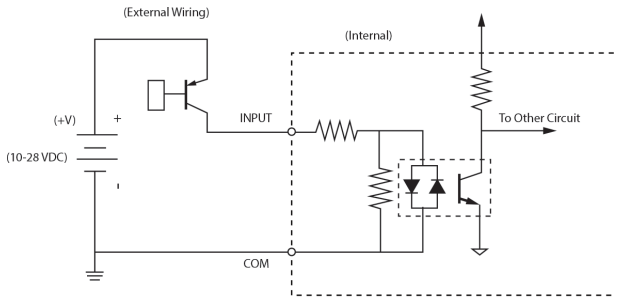
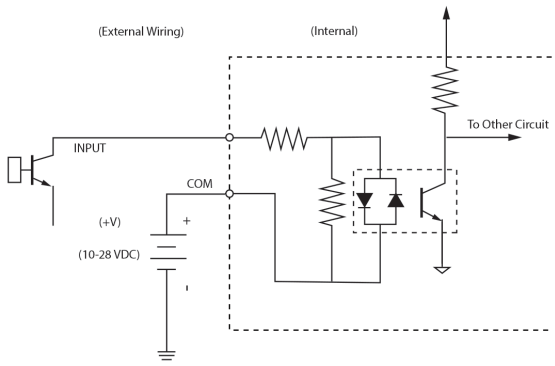
Analog Specifications		
Analog Current Input Specs	Number of Channels	2 Single Ended
	Input Range	4-20 mA
	Resolution	12 bit (1-4096)
	Step Response	1ms for 95% FS
	Crosstalk	1/2 count max, -80db
	Input Impedance	62.5Ω ± 0.1%
	Absolute Max Ratings	-30mA to 30mA
	Converter Type	Successive Approximation
	Linearity Error (end to end)	± 2 counts
	Input Stability	± 1 count
	Full-scale Calibration Error	± 10 counts @ 20mA
	Offset Calibration Error	± 5 counts
	Max Inaccuracy	± 0.3% @ 25°C, ± 0.6% @ 60°C
	Accuracy vs. Temperature	± 50 ppm/°C typical
	Recommended Fuse	.032 Amp, series 217 fast acting
Analog Current Output Specs	Number of Channels	2 single ended
	Output Range	4-20mA
	Output Type	Current Sourcing
	Resolution	12 bit (1-4096)
	Max. Loop Voltage	6 VDC
	Load/loop	0-300Ω
	Linearity Error (end to end)	± 2 counts
	Conversion Setting Time	100µs for FS
	Full-scale Calibration Error	± 12 counts
	Offset Calibration Error	± 6 counts
	Max. Full-scale Inaccuracy (all errors included)	± 0.3%
	Wires	14 to 24 AWG

Module Specifications	
Operating Temperature	-20 °C to 60 °C
Storage Temperature	-20 °C to 70 °C
Relative Humidity	5 to 95 %
Removable Terminal Block	300 Volt/8 Amp/ 14 AWG UL Rating
Vibration	MIL STD 810C 514.2
Shock	MIL STD 810C 516.2
Noise Immunity	NEMA ICS3-304

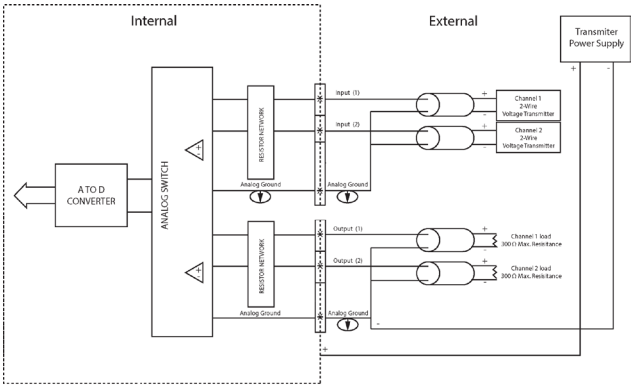




DE INPUT (SOURCE)



DE INPUT (SINK)



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