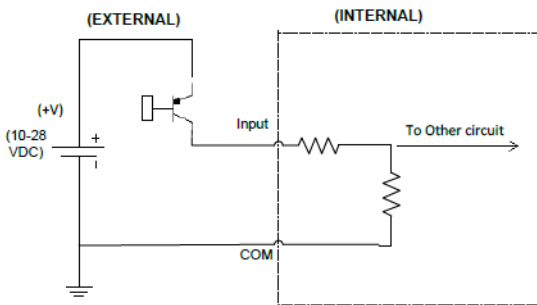


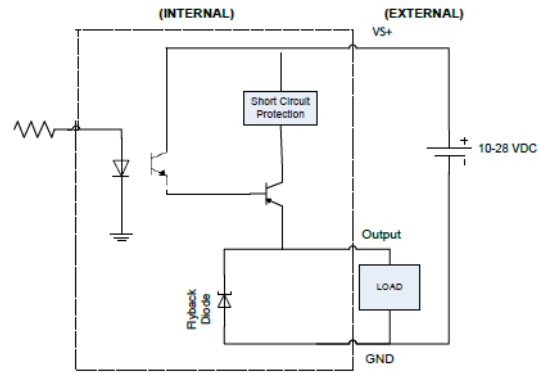
Discrete and Analog Specifications and Circuit

Discrete Input Specifications	
Number of Inputs	8 or 16
Input Voltage Range	10-28 VDC
Peak Voltage	40 VDC
Input Current	1.92 mA @ 12 VDC 4.0 mA @ 24VDC
Maximum Input Current	5 mA @ 28 VDC
Input Impedance	5.6k @ 10-28 VDC
ON Voltage Level	>12 VDC
OFF Voltage Level	<3 VDC
Min. ON Current	1.5mA
Min. OFF Current	0.2 mA
Status Indicators	Red LED for each input
Commons	2 points
Fuse	No Fuse
Wires	1 of 14 AWG, 2 of 18 AWG 4 of 22 AWG

Discrete Output Specifications	
Number of Outputs	6 or 8
Peak voltage	50 VDC
Maximum Steady state Output Current	0.5A per Output 1.0 A 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
Status Indicators	Red LED for each output
Short Circuit Protection	1 Amp per module, turns off outputs upon short-circuit detection
Base power required (3.3V)	40mA, all outputs on
Wires	1 of 14 AWG, 2 of 18 AWG 4 of 22 AWG

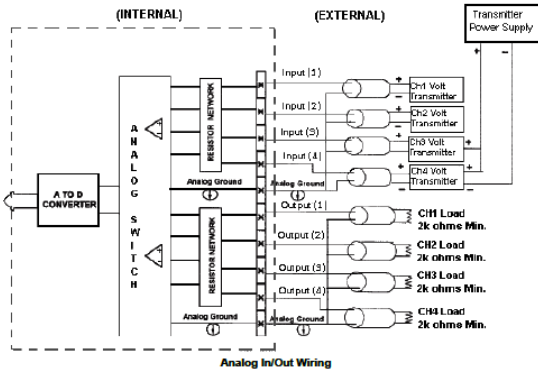


Discrete Input Wiring



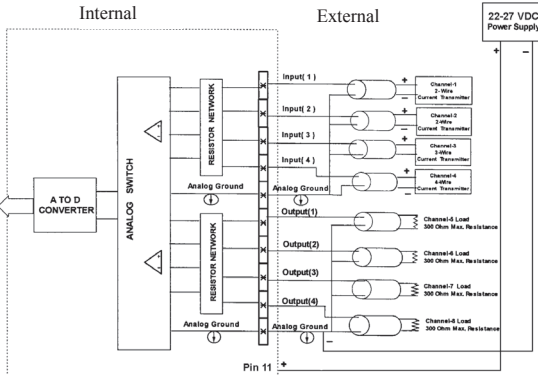
Discrete Output Wiring

Analog Voltage Circuitry



Analog In/Out Wiring

Analog Current Circuitry



Pin 11

Analog Current Specifications	
Number of Channels	4 Single Ended
Input Range	0-20mA or 4-20 mA DIP switch selectable
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	4 single ended
Output Range	0-20mA, 4-20mA (DIP switch selectable)
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%

Analog Voltage Specifications	
Input Voltage Range	0-10 VDC
Resolution	12 bit (1- 4096)
Step Response	200 µs to 95% of FS
Crosstalk	½ count max, -80db
Input Impedance	>20 KΩ
Absolute Max ratings	±15V
Converter Type	successive approximation
Linearity error (end to end)	± 2 count
Input stability	± 2 count
Gain error	± 2 count
Offset Calibration error	± 5 counts
Max Inaccuracy	± 0.2% at 25°C ± 0.4% at 0-60°C
Accuracy vs. Temperature	±50 ppm/°C typical

Analog Voltage Output specs	
Output Voltage Range	0-10 VDC
Resolution	12 bit (1-4096)
Conversion Setting Time	100 µs for FS
Crosstalk	½ count max, -80db
Peak Output Voltage	±18 VDC
Gain error	± 0.3% of range
Offset error	± 0.15% of range
Linearity error (end to end)	± 1 count
Output Stability	± 2 count
Load Impedance	2k Ω min.
Load Capacitance	0.01 microF max
Accuracy vs. Temperature	±50 ppm/°C typical

EZSeries
TouchPLC