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DL105 I/O Specifications

F1-130DR

Wiring diagram and specifications

Power requirements

Voltage range . . . . . .94-240 VAC (30 VA)
. . . . . .100-240 VDC (30 W)

DC input specifications

Number of input points . . . . . .10 (sink/source)
Number of commons . . . . . .3 (isolated)
Input voltage range . . . . . .(X0–X3):10-26.4 VDC
. . . . . .(X4-X11):10-26.4 VDC or
. . . . . .21.6–26.4 VAC
Input impedance . . . . . .2.8 KΩ @ 12-24 VDC
ON current/voltage level . . . . . .> 3 mA / > 9 VDC
OFF current/voltage level . . . . . .< 0.5 mA / < 2 VDC
OFF to ON response . . . . . .X0-X3: 50 µs
. . . . . .X4-X11: 2-8 ms
ON to OFF response . . . . . .X0-X3: 50 µs
. . . . . .X4-X11: 2-8 ms
Fuses . . . . . .None

Relay output specifications

Number of output points 8
Number of commons . . . . . .4 (isolated)
Output circuitry . . . . . .Relay
Output voltage range . . . . . .12-250 VAC
. . . . . .12-30 VDC
Maximum voltage . . . . . .265 VAC, 150 VDC
Maximum current . . . . . .7 A/point (see derating)
Maximum inrush current . . . . . .12 A
Minimum load . . . . . .10 mA
Minimum OFF resistance . . . . . .100 MΩ @ 500 VDC
OFF to ON response . . . . . .15 ms
ON to OFF response . . . . . .5 ms
Fuses . . . . . .None (external recommended)

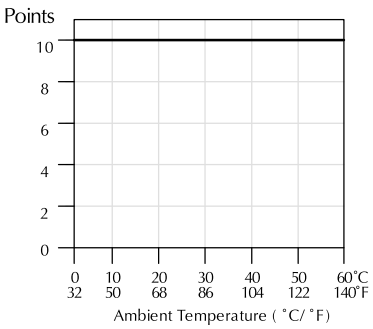
Auxiliary 24 VDC Output

Voltage range . . . . . .21.6 - 26.4 VDC
Output . . . . . .500 mA max., isolated
Ripple . . . . . .less than 200 mV p - p

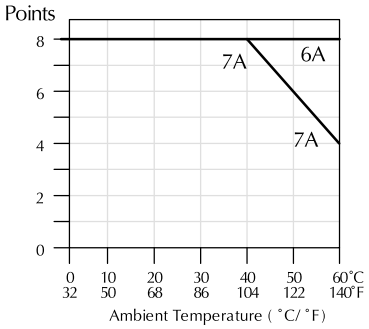
Typical Relay Life (Operations) at Room Temperature

Voltage and Type of Load	*Load Current*		
	50 mA	*5 A*	*7 A*
24 VDC Resistive	10M	600K	300K
24 VDC Solenoid	—	150K	75K
110 VAC Resistive	—	600K	300K
110 VAC Solenoid	—	500K	200K
220 VAC Resistive	—	300K	150K
220 VAC Solenoid	—	250K	100K

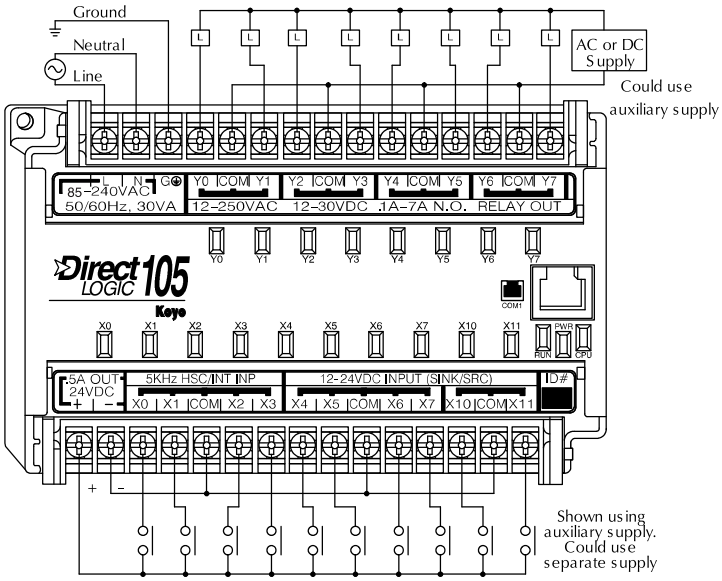
Derating chart for DC inputs



Derating chart for relay outputs

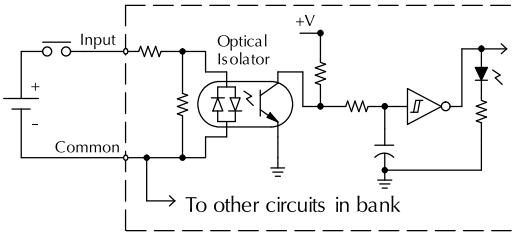


Output point wiring

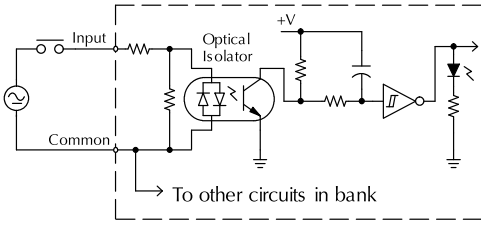


Input point wiring

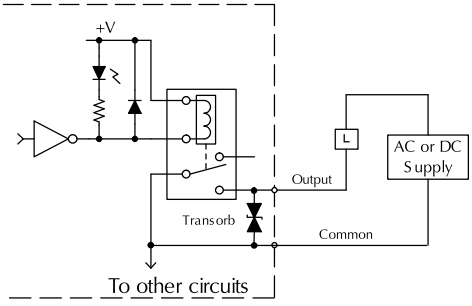
Equivalent circuit high-speed inputs (X0-X3)



Equivalent circuit standard inputs (X4-X11)



Equivalent output circuit



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