MDR Control Card Quick Reference Guide WWL CS1001





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WWL (CS1001)

Quick Reference Guide

High Torque - High Speed (HTHS)

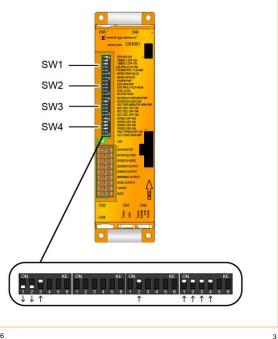
300 fpm

Local Control Left Hand Mounted

Performance Data	
No Load Speed	295.5 fpm
Sensor Timer	4.0 s
Jam Timer	3.0 s
Run Hold Timer	1.0 s
Vin +/- 0.2% Minimum Setting	9.55 V
Vin +/- 0.2% Maximum Setting	9.95 V



300 fpm/HTHS/Local/Left Hand





WWL (CS1001)

Quick Reference Guide

Standard Torque - Standard Speed (STSS)

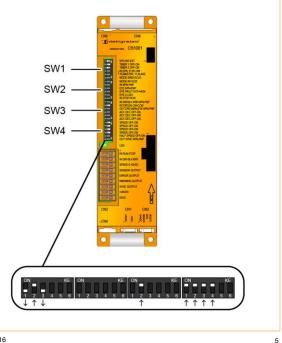
180 fpm

Local Control Left Hand Mounted

Performance Data	
No Load Speed	199.8 fpm
Sensor Timer	4.0 s
Jam Timer	4.0 s
Run Hold Timer	6.0 s
Vin +/- 0.2% Minimum Setting	9.55 V
Vin +/- 0.2% Maximum Setting	9.95 V



180 fpm/STSS/Local/Left Hand





WWL (CS1001)

Quick Reference Guide

High Torque - Standard Speed (HTSS)

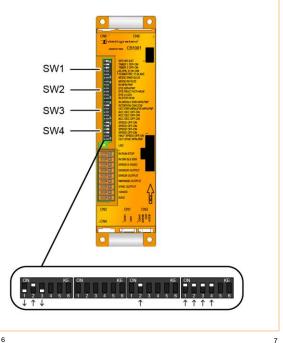
180 fpm

Local Control Left Hand Mounted

Performance Data	
No Load Speed	199.8 fpm
Sensor Timer	4.0 s
Jam Timer	4.0 s
Run Hold Timer	6.0 s
Vin +/- 0.2% Minimum Setting	9.55 V
Vin +/- 0.2% Maximum Setting	9.95 V



180 fpm/HTSS/Local/Left Hand





WWL (CS1001)

Quick Reference Guide

High Torque - High Speed (HTHS)

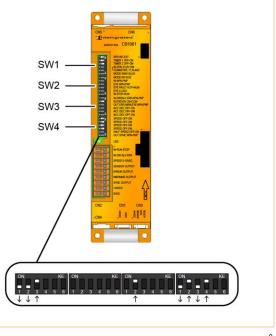
180 fpm

Local Control Left Hand Mounted

Performance Data	
No Load Speed	190.3 fpm
Sensor Timer	4.0 s
Jam Timer	3.0 s
Run Hold Timer	1.0 s
Vin +/- 0.2% Minimum Setting	5.55 V
Vin +/- 0.2% Maximum Setting	5.95 V



180 fpm/HTHS/Local/Left Hand





WWL (CS1001)

Quick Reference Guide

Standard Torque - Standard Speed (STSS)

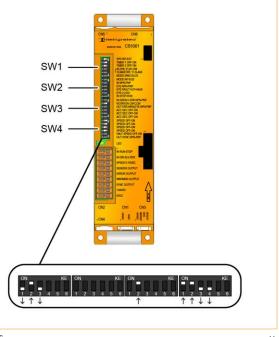
150 fpm

Local Control Left Hand Mounted

Performance Data	
No Load Speed	163.2 fpm
Sensor Timer	4.0 s
Jam Timer	4.0 s
Run Hold Timer	6.0 s
Vin +/- 0.2% Minimum Setting	7.55 V
Vin +/- 0.2% Maximum Setting	7.95 V



150 fpm/STSS/Local/Left Hand





WWL (CS1001)

Quick Reference Guide

High Torque - Standard Speed (HTSS)

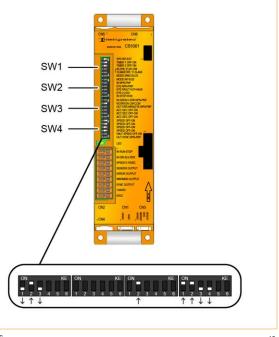
150 fpm

Local Control Left Hand Mounted

Performance Data	
No Load Speed	163.2 fpm
Sensor Timer	4.0 s
Jam Timer	4.0 s
Run Hold Timer	6.0 s
Vin +/- 0.2% Minimum Setting	7.55 V
Vin +/- 0.2% Maximum Setting	7.95 V



150 fpm/HTSS/Local/Left Hand





WWL (CS1001)

Quick Reference Guide

High Torque - High Speed (HTHS)

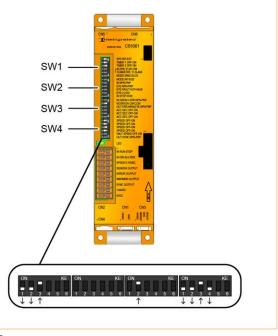
150 fpm

Local Control Left Hand Mounted

Performance Data	
No Load Speed	157.6 fpm
Sensor Timer	4.0 s
Jam Timer	3.0 s
Run Hold Timer	1.0 s
Vin +/- 0.2% Minimum Setting	3.55 V
Vin +/- 0.2% Maximum Setting	3.95 V



150 fpm/HTHS/Local/Left Hand





WWL (CS1001)

Quick Reference Guide

Standard Torque - Standard Speed (STSS)

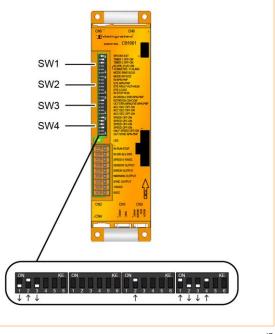
120 fpm

Local Control Left Hand Mounted

Performance Data	
No Load Speed	131.2 fpm
Sensor Timer	4.0 s
Jam Timer	4.0 s
Run Hold Timer	6.0 s
Vin +/- 0.2% Minimum Setting	6.05 V
Vin +/- 0.2% Maximum Setting	6.45 V



120 fpm/STSS/Local/Left Hand





WWL (CS1001)

Quick Reference Guide

High Torque - Standard Speed (HTSS)

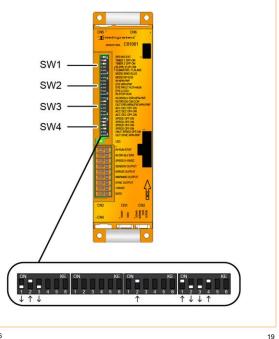
120 fpm

Local Control Left Hand Mounted

Performance Data	
No Load Speed	131.2 fpm
Sensor Timer	4.0 s
Jam Timer	4.0 s
Run Hold Timer	6.0 s
Vin +/- 0.2% Minimum Setting	6.05 V
Vin +/- 0.2% Maximum Setting	6.45 V



120 fpm/HTSS/Local/Left Hand





WWL (CS1001)

Quick Reference Guide

Standard Torque - Standard Speed (STSS)

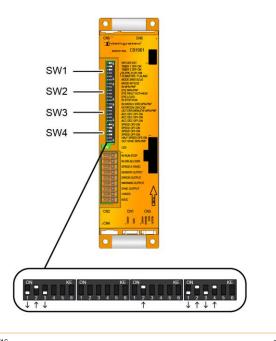
90 fpm

Local Control Left Hand Mounted

Performance Data	
No Load Speed	100.4 fpm
Sensor Timer	4.0 s
Jam Timer	4.0 s
Run Hold Timer	6.0 s
Vin +/- 0.2% Minimum Setting	4.55 V
Vin +/- 0.2% Maximum Setting	4.95 V



90 fpm/STSS/Local/Left Hand





WWL (CS1001)

Quick Reference Guide

High Torque - Standard Speed (HTSS)

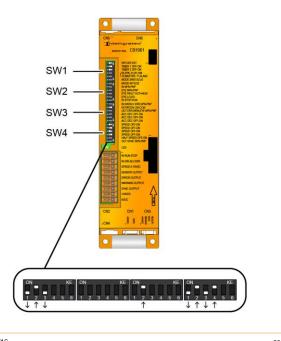
90 fpm

Local Control Left Hand Mounted

Performance Data	
No Load Speed	100.4 fpm
Sensor Timer	4.0 s
Jam Timer	4.0 s
Run Hold Timer	6.0 s
Vin +/- 0.2% Minimum Setting	4.55 V
Vin +/- 0.2% Maximum Setting	4.95 V



90 fpm/HTSS/Local/Left Hand





WWL (CS1001)

Quick Reference Guide

Standard Torque - Standard Speed (STSS)

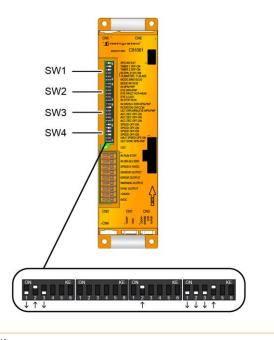
60 fpm

Local Control Left Hand Mounted

Performance Data	
No Load Speed	65.5 fpm
Sensor Timer	4.0 s
Jam Timer	4.0 s
Run Hold Timer	6.0 s
Vin +/- 0.2% Minimum Setting	3.05 V
Vin +/- 0.2% Maximum Setting	3.45 V



60 fpm/STSS/Local/Left Hand





WWL (CS1001)

Quick Reference Guide

High Torque - Standard Speed (HTSS)

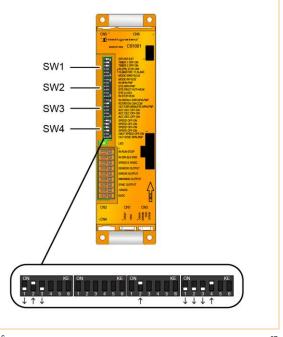
60 fpm

Local Control Left Hand Mounted

Performance Data	
No Load Speed	65.5 fpm
Sensor Timer	4.0 s
Jam Timer	4.0 s
Run Hold Timer	6.0 s
Vin +/- 0.2% Minimum Setting	3.05 V
Vin +/- 0.2% Maximum Setting	3.45 V



60 fpm/HTSS/Local/Left Hand





WWL (CS1001)

Quick Reference Guide

Standard Torque - Low Speed (STLS)

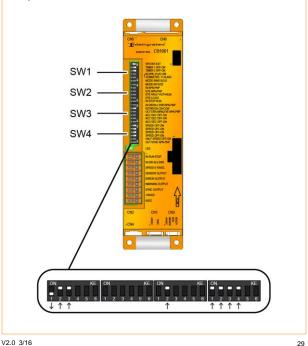
55 fpm

Local Control Left Hand Mounted

Performance Data	
No Load Speed	57.2 fpm
Sensor Timer	4.0 s
Jam Timer	5.0 s
Run Hold Timer	8.0 s
Vin +/- 0.2% Minimum Setting	9.55 V
Vin +/- 0.2% Maximum Setting	9.95 V



55 fpm/STLS/Local/Left Hand





WWL (CS1001)

Quick Reference Guide

High Torque - High Speed (HTHS)

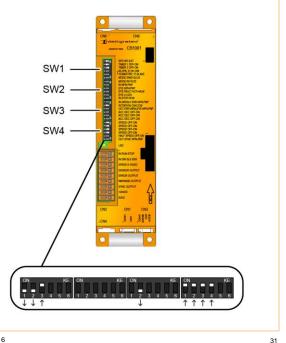
300 fpm

Local Control Right Hand Mounted

Performance Data	
No Load Speed	295.5 fpm
Sensor Timer	4.0 s
Jam Timer	3.0 s
Run Hold Timer	1.0 s
Vin +/- 0.2% Minimum Setting	9.55 V
Vin +/- 0.2% Maximum Setting	9.95 V



300 fpm/HTHS/Local/Right Hand





WWL (CS1001)

Quick Reference Guide

Standard Torque - Standard Speed (STSS)

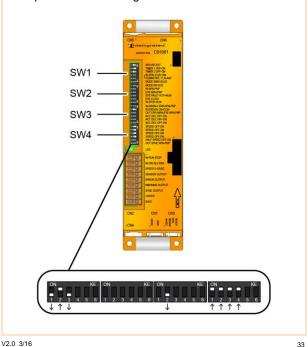
180 fpm

Local Control Right Hand Mounted

Performance Data	
No Load Speed	199.8 fpm
Sensor Timer	4.0 s
Jam Timer	4.0 s
Run Hold Timer	6.0 s
Vin +/- 0.2% Minimum Setting	9.55 V
Vin +/- 0.2% Maximum Setting	9.95 V



180 fpm/STSS/Local/Right Hand





WWL (CS1001)

Quick Reference Guide

High Torque - Standard Speed (HTSS)

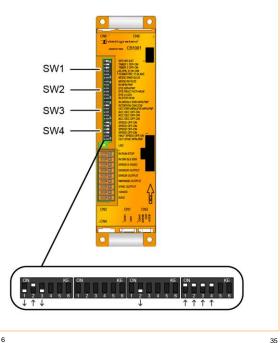
180 fpm

Local Control Right Hand Mounted

Performance Data	
No Load Speed	199.8 fpm
Sensor Timer	4.0 s
Jam Timer	4.0 s
Run Hold Timer	6.0 s
Vin +/- 0.2% Minimum Setting	9.55 V
Vin +/- 0.2% Maximum Setting	9.95 V



180 fpm/HTSS/Local/Right Hand





WWL (CS1001)

Quick Reference Guide

High Torque - High Speed (HTHS)

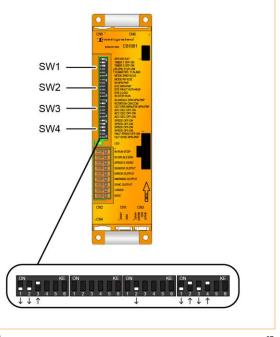
180 fpm

Local Control Right Hand Mounted

Performance Data	
No Load Speed	190.3 fpm
Sensor Timer	4.0 s
Jam Timer	3.0 s
Run Hold Timer	1.0 s
Vin +/- 0.2% Minimum Setting	9.55 V
Vin +/- 0.2% Maximum Setting	9.95 V



180 fpm/HTHS/Local/Right Hand





WWL (CS1001)

Quick Reference Guide

Standard Torque - Standard Speed (STSS)

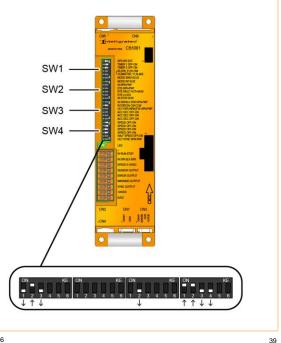
150 fpm

Local Control Right Hand Mounted

Performance Data	
No Load Speed	163.2 fpm
Sensor Timer	4.0 s
Jam Timer	4.0 s
Run Hold Timer	6.0 s
Vin +/- 0.2% Minimum Setting	7.55 V
Vin +/- 0.2% Maximum Setting	7.95 V



150 fpm/STSS/Local/Right Hand





WWL (CS1001)

Quick Reference Guide

High Torque - Standard Speed (HTSS)

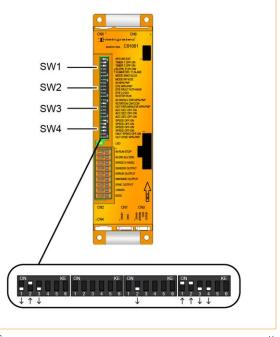
150 fpm

Local Control Right Hand Mounted

Performance Data	
No Load Speed	163.2 fpm
Sensor Timer	4.0 s
Jam Timer	4.0 s
Run Hold Timer	6.0 s
Vin +/- 0.2% Minimum Setting	7.55 V
Vin +/- 0.2% Maximum Setting	7.95 V



150 fpm/HTSS/Local/Right Hand





WWL (CS1001)

Quick Reference Guide

High Torque - High Speed (HTHS)

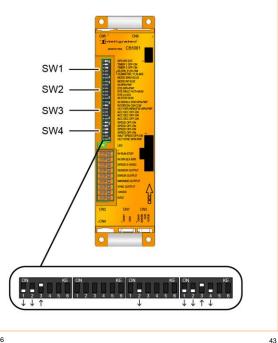
150 fpm

Local Control Right Hand Mounted

Performance Data	
No Load Speed	157.6 fpm
Sensor Timer	4.0 s
Jam Timer	3.0 s
Run Hold Timer	1.0 s
Vin +/- 0.2% Minimum Setting	3.55 V
Vin +/- 0.2% Maximum Setting	3.95 V



150 fpm/HTHS/Local/Right Hand





WWL (CS1001)

Quick Reference Guide

Standard Torque - Standard Speed (STSS)

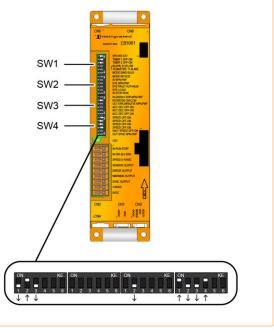
120 fpm

Local Control Right Hand Mounted

Performance Data	
No Load Speed	131.2 fpm
Sensor Timer	4.0 s
Jam Timer	4.0 s
Run Hold Timer	6.0 s
Vin +/- 0.2% Minimum Setting	6.05 V
Vin +/- 0.2% Maximum Setting	6.45 V



120 fpm/STSS/Local/Right Hand





WWL (CS1001)

Quick Reference Guide

High Torque - Standard Speed (HTSS)

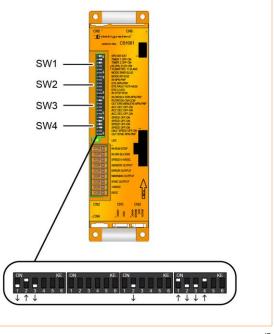
120 fpm

Local Control Right Hand Mounted

Performance Data	
No Load Speed	131.2 fpm
Sensor Timer	4.0 s
Jam Timer	4.0 s
Run Hold Timer	6.0 s
Vin +/- 0.2% Minimum Setting	6.05 V
Vin +/- 0.2% Maximum Setting	6.45 V



120 fpm/HTSS/Local/Right Hand





WWL (CS1001)

Quick Reference Guide

Standard Torque - Standard Speed (STSS)

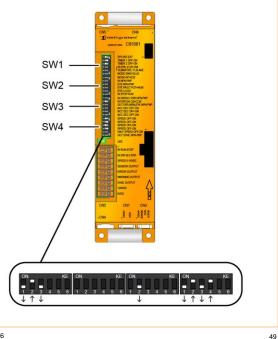
90 fpm

Local Control Right Hand Mounted

Performance Data	
No Load Speed	100.4 fpm
Sensor Timer	4.0 s
Jam Timer	4.0 s
Run Hold Timer	6.0 s
Vin +/- 0.2% Minimum Setting	4.55 V
Vin +/- 0.2% Maximum Setting	4.95 V



90 fpm/STSS/Local/Right Hand





WWL (CS1001)

Quick Reference Guide

High Torque - Standard Speed (HTSS)

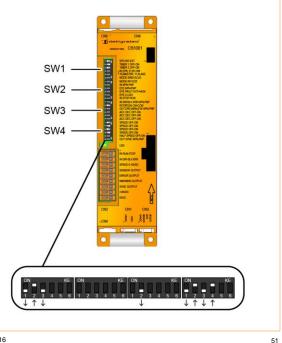
90 fpm

Local Control Right Hand Mounted

Performance Data	
No Load Speed	100.4 fpm
Sensor Timer	4.0 s
Jam Timer	4.0 s
Run Hold Timer	6.0 s
Vin +/- 0.2% Minimum Setting	4.55 V
Vin +/- 0.2% Maximum Setting	4.95 V



90 fpm/HTSS/Local/Right Hand





WWL (CS1001)

Quick Reference Guide

Standard Torque - Standard Speed (STSS)

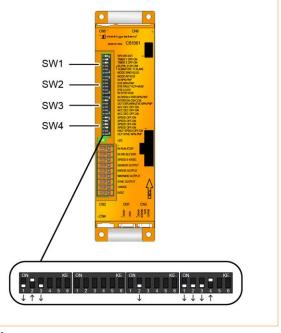
60 fpm

Local Control Right Hand Mounted

Performance Data	
No Load Speed	65.5 fpm
Sensor Timer	4.0 s
Jam Timer	4.0 s
Run Hold Timer	6.0 s
Vin +/- 0.2% Minimum Setting	3.05 V
Vin +/- 0.2% Maximum Setting	3.45 V



60 fpm/STSS/Local/Right Hand





WWL (CS1001)

Quick Reference Guide

High Torque - Standard Speed (HTSS)

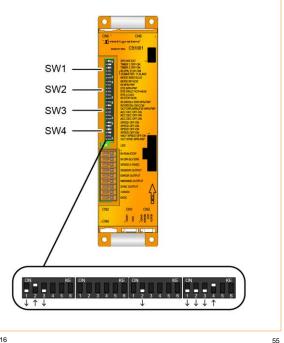
60 fpm

Local Control Right Hand Mounted

Performance Data	
No Load Speed	65.5 fpm
Sensor Timer	4.0 s
Jam Timer	4.0 s
Run Hold Timer	6.0 s
Vin +/- 0.2% Minimum Setting	3.05 V
Vin +/- 0.2% Maximum Setting	3.45 V



60 fpm/HTSS/Local/Right Hand





WWL (CS1001)

Quick Reference Guide

Standard Torque - Low Speed (STLS)

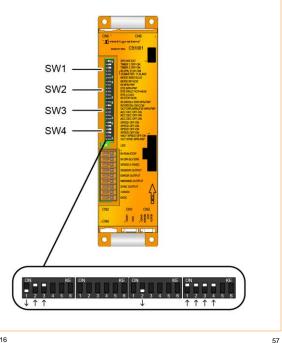
55 fpm

Local Control Right Hand Mounted

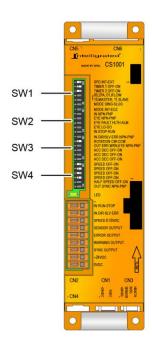
Performance Data	
No Load Speed	57.2 fpm
Sensor Timer	4.0 s
Jam Timer	5.0 s
Run Hold Timer	8.0 s
Vin +/- 0.2% Minimum Setting	9.55 V
Vin +/- 0.2% Maximum Setting	9.95 V



55 fpm/STLS/Local/Right Hand

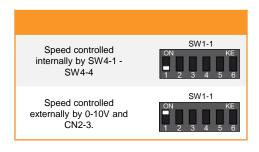


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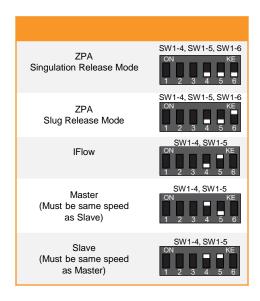


Speed Selection (SW1)



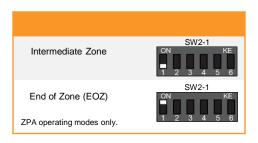


Operating Modes (SW1)





Zone Type (SW2)



Input Signal Polarity (SW2)

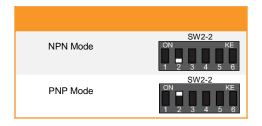
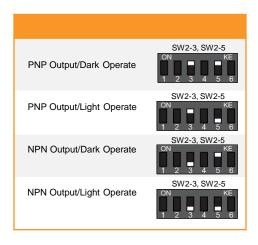




Photo-Eye Operation (SW2)





Forcing a Zone (SW2)

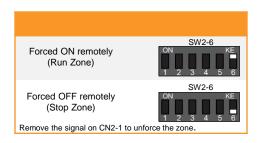
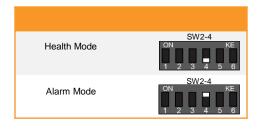
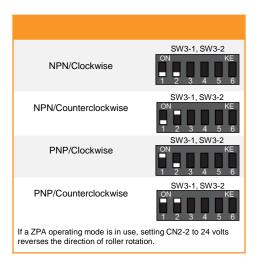


Photo-Eye Status (SW2)





Roller Rotation Direction (SW3)



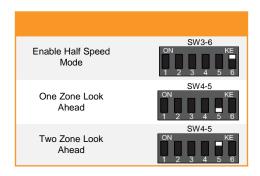


Output Signal Polarity (SW3)



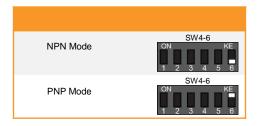


Half Speed Mode (SW3, SW4)





Synchronization Signal Polarity (SW4)





LED Diagnostics

The green LED to the right of the dipswitches provides alerts to status and error conditions that have occurred. The number of times the LED blinks identifies the error. If multiple errors have occurred, the LED will identify each error in the order in which it occurred. When this is the case, the LED will stay ON for 3 seconds between each error sequence. For example, if a Photo-Eye Error occurred followed by a Roller Thermal Fault, the LED would blink as follows:

1 Blink - ON (3 secs) - 4 Blinks - ON (3 secs) - Repeat

# of Blinks	Status		
Steady ON	Normal Operation		
1	Photo-Eye Error		
2	Jam Time Error		
3	Control Card Thermal Fault		
4	Roller Thermal Fault		
5	Roller Lock/Over-Current Fault		
6	Power/Low-Voltage Error		
7	Slave Card Error (Master Mode)		