

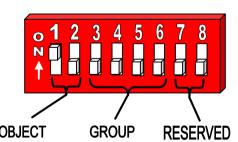
Ethernet Board DIP Switches:

8 Reserved for future use

Switch	Description	Comments
1	Object Instance LSB	
2	Object Instance MSB	1
3	Equipment Group 1 Select	I lood for Arelink Configuration
4	Equipment Group 2 Select Used for Arclink Configuratio	
5	Equipment Group 3 Select	1
6	Equipment Group 4 Select	
7	Reserved for future use	

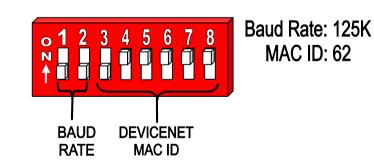
Bank S2 – DeviceNet Set-up				
Switch	Description	Comments		
1	DeviceNet Baud Rate			
2				
3]		
4		Used for DeviceNet configuration		
5	DeviceNet Mac ID	(see Instruction Manual)		
6		(SSS MSCASCION Mariadi)		
7				
8				

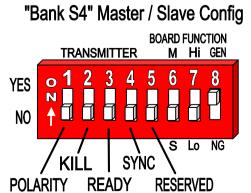
"Bank S1" ArcLink Configuration



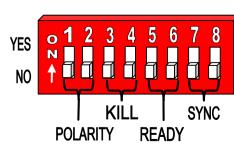
SELECT







"Bank S3" I/O Termination



KILL SYNC

ARITY READY (Default Settings Shown)

Troubleshooting the PowerWave System Interface

Using the Status LED

LIGHT CONDITION	MEANING
Steady Green	System OK. Unit is operational, and is communicating normally with the ArcLink network.
Blinking Green	Occurs during power up or a system reset, and indicates the Power Wave is mapping (identifying) each component in the system. Normal for first 1-10 seconds after power is turned on, or if the system configuration is changed during operation.
Fast Blinking Green	Indicates Auto-mapping has failed
Alternating Green and Red	Non-recoverable system fault. If the Status lights are flashing any combination of red and green, errors are present. Read the error code(s) before the machine is turned off. Error Code interpretation through the Status light is detailed in the Service Manual. Individual code digits are flashed in red with a long pause between digits. If more than one code is present, the codes will be separated by a green light. Only active error conditions will be accessible through the Status Light. Error codes can also be retrieved with the Diagnostics Utility (included on the Power Wave Submerged Arc Utilities and Service Navigator CD's). This is the preferred method, since it can access historical information contained in the error logs. To clear the active error(s), turn power source off, and back on to reset.
Steady Red	Not applicable.
Blinking Red	Not applicable.

PowerWave System Interface Error Codes (partial listing)				
Error Code #	Indication			
118 DeviceNet connection error	Lost Connection with DeviceNet Master			
119 DeviceNet de-allocation error	The DeviceNet Master de-allocated the connection			
133 Write ArcLink action failure	May be caused by activating Cold Inch while welding through DeviceNe			
145 Duplicate MAC ID error	Check MAC ID assignments on DeviceNet Setup Dipswitch Bank (S2)			
146 DeviceNet Bus off	Check condition of onboard DeviceNet Status indicators			
147 DeviceNet polled I/O error	Problem changing attribute over polled I/O			
149 DeviceNet I/O data error	Received DeviceNet I/O data with wrong number of bytes			
169 Ethernet Connection Timeout	Loss of communication with PC Application.			
171 Ethernet Socket Timeout	Note: These errors are only valid when the System Interface is connected directly to an Ethernet network (typically for diagnostic purposes). During normal operation it communicates via ArcLink or DeviceNet.			
172 Ethernet Watch Dog Timeout				
Other	Error codes that contain four (4) digits are defined as fatal errors. These codes generally indicate internal errors on the Ethernet PC Board. If cycling the input power on the machine does not clear the error, try reloading the operating system. If this fails, replace the Ethernet PC Board.			