

LightSync Serial Interface Input Control Module Panel Level ModBus ASCII Serial Strings

The LS Serial Interface Input Control Module #97013516 is capable of emulating from 1 to 8 LightSync devices. Through Modbus ASCII serial communications, you can write to close/open switch inputs and read to get pilot status. The lighting controller is programmed as if there are actual switches present in the system.

Base LS Address: Starting LightSync Device Address

Communications: 38,400, 7 Data Bits, Parity None, 2 Stop Bits, Flow Control None

Modbus Address: 01

Option Settings:	# of LS Devices	Switches "ON"
	1	None
	2	1
	3	2
	4	1, 2
	5	3
	6	1, 3
	7	2, 3
	8	1, 2, 3

Serial strings start with a colon (:) and end with a carriage return -line feed(CRLF).

LightSync Inputs

Modbus ASCII Serial String Force Switch ON	Modbus ASCII Serial String Force Switch OFF		Modbus Coil Point Address	LightSyncDevice	6 Input PB	4 Input 3 wire	Photocell 2S
:01050000FF00FB	:010500000000FA		00001	Base LightSync Node Address	Input 1	Input 1 On	Bit 0
:01050001FF00FA	:010500010000F9		00002		Input 2	Input 1 Off	Bit 1
:01050002FF00F9	:010500020000F8		00003		Input 3	Input 2 On	Bit 2
:01050003FF00F8	:010500030000F7		00004		Input 4	Input 2 Off	Bit 3
:01050004FF00F7	:010500040000F6		00005		Input 5	Input 3 On	Bit 4
:01050005FF00F6	:010500050000F5		00006		Input 6	Input 3 Off	Bit 5
:01050006FF00F5	:010500060000F4		00007		Input 7	Input 4 On	Bit 6
:01050007FF00F4	:010500070000F3		00008		Input 8	Input 4 Off	Bit 7
:01050008FF00F3	:010500080000F2		00009	Base LightSync Node Address + 1	Input 1	Input 1 On	Bit 0
:01050009FF00F2	:010500090000F1		00010		Input 2	Input 1 Off	Bit 1
:0105000AFF00F1	:0105000A0000F0		00011		Input 3	Input 2 On	Bit 2
:0105000BFF00F0	:0105000B0000EF		00012		Input 4	Input 2 Off	Bit 3
:0105000CFF00EF	:0105000C0000EE		00013		Input 5	Input 3 On	Bit 4
:0105000DFF00EE	:0105000D0000ED		00014		Input 6	Input 3 Off	Bit 5
:0105000EFF00ED	:0105000E0000EC		00015		Input 7	Input 4 On	Bit 6
:0105000FFF00EC	:0105000F0000EB		00016		Input 8	Input 4 Off	Bit 7
:01050010FF00EB	:010500100000EA		00017	Base LightSync Node Address + 2	Input 1	Input 1 On	Bit 0

:01050011FF00EA	:010500110000E9		00018		Input 2	Input 1 Off	Bit 1
:01050012FF00E9	:010500120000E8		00019		Input 3	Input 2 On	Bit 2
:01050013FF00E8	:010500130000E7		00020		Input 4	Input 2 Off	Bit 3
:01050014FF00E7	:010500140000E6		00021		Input 5	Input 3 On	Bit 4
:01050015FF00E6	:010500150000E5		00022		Input 6	Input 3 Off	Bit 5
:01050016FF00E5	:010500160000E4		00023		Input 7	Input 4 On	Bit 6
:01050017FF00E4	:010500170000E3		00024		Input 8	Input 4 Off	Bit 7
:01050018FF00E3	:010500180000E2		00025	Base LightSync Node Address + 3	Input 1	Input 1 On	Bit 0
:01050019FF00E2	:010500190000E1		00026		Input 2	Input 1 Off	Bit 1
:0105001AFF00E1	:0105001A0000E0		00027		Input 3	Input 2 On	Bit 2
:0105001BFF00E0	:0105001B0000DF		00028		Input 4	Input 2 Off	Bit 3
:0105001CFF00DF	:0105001C0000DE		00029		Input 5	Input 3 On	Bit 4
:0105001DFF00DE	:0105001D0000DD		00030		Input 6	Input 3 Off	Bit 5
:0105001EFF00DD	:0105001E0000DC		00031		Input 7	Input 4 On	Bit 6
:0105001FFF00DC	:0105001F0000DB		00032		Input 8	Input 4 Off	Bit 7
:01050020FF00DB	:010500200000DA		00033	Base LightSync Node Address + 4	Input 1	Input 1 On	Bit 0
:01050021FF00DA	:010500210000D9		00034		Input 2	Input 1 Off	Bit 1
:01050022FF00D9	:010500220000D8		00035		Input 3	Input 2 On	Bit 2
:01050023FF00D8	:010500230000D7		00036		Input 4	Input 2 Off	Bit 3
:01050024FF00D7	:010500240000D6		00037		Input 5	Input 3 On	Bit 4
:01050025FF00D6	:010500250000D5		00038		Input 6	Input 3 Off	Bit 5
:01050026FF00D5	:010500260000D4		00039		Input 7	Input 4 On	Bit 6
:01050027FF00D4	:010500270000D3		00040		Input 8	Input 4 Off	Bit 7
:01050028FF00D3	:010500280000D2		00041	Base LightSync Node Address + 5	Input 1	Input 1 On	Bit 0
:01050029FF00D2	:010500290000D1		00042		Input 2	Input 1 Off	Bit 1
:0105002AFF00D1	:0105002A0000D0		00043		Input 3	Input 2 On	Bit 2
:0105002BFF00D0	:0105002B0000CF		00044		Input 4	Input 2 Off	Bit 3
:0105002CFF00CF	:0105002C0000CE		00045		Input 5	Input 3 On	Bit 4
:0105002DFF00CE	:0105002D0000CD		00046		Input 6	Input 3 Off	Bit 5
:0105002EFF00CD	:0105002E0000CC		00047		Input 7	Input 4 On	Bit 6
:0105002FFF00CC	:0105002F0000CB		00048		Input 8	Input 4 Off	Bit 7
:01050030FF00CB	:010500300000CA		00049	Base LightSync Node Address + 6	Input 1	Input 1 On	Bit 0
:01050031FF00CA	:010500310000C9		00050		Input 2	Input 1 Off	Bit 1
:01050032FF00C9	:010500320000C8		00051		Input 3	Input 2 On	Bit 2
:01050033FF00C8	:010500330000C7		00052		Input 4	Input 2 Off	Bit 3
:01050034FF00C7	:010500340000C6		00053		Input 5	Input 3 On	Bit 4
:01050035FF00C6	:010500350000C5		00054		Input 6	Input 3 Off	Bit 5
:01050036FF00C5	:010500360000C4		00055		Input 7	Input 4 On	Bit 6
:01050037FF00C4	:010500370000C3		00056		Input 8	Input 4 Off	Bit 7

:01050038FF00C3	:010500380000C2		00057	Base LightSync Node Address + 7	Input 1	Input 1 On	Bit 0
:01050039FF00C2	:010500390000C1		00058		Input 2	Input 1 Off	Bit 1
:0105003AFF00C1	:010500400000C0		00059		Input 3	Input 2 On	Bit 2
:0105003BFF00C0	:010500410000BF		00060		Input 4	Input 2 Off	Bit 3
:0105003CFF00BF	:010500420000BE		00061		Input 5	Input 3 On	Bit 4
:0105003DFF00BE	:010500430000BD		00062		Input 6	Input 3 Off	Bit 5
:0105003EFF00BD	:010500440000BC		00063		Input 7	Input 4 On	Bit 6
:0105003FFF00BC	:010500450000BB		00064		Input 8	Input 4 Off	Bit 7

LightSync Input Status Pilots

Modbus ASCII Serial String Reply Status ON	Modbus ASCII Serial String Reply Status OFF	Modbus ASCII Serial String Pilot Output	Modbus Coil Point Address	LightSyncDevice	Pilot Output
:01010101FC	:01010100FD	:010100400001BD	00065	Base LightSync Node Address	Pilot 1
:01010101FC	:01010100FD	:010100410001BC	00066		Pilot 2
:01010101FC	:01010100FD	:010100420001BB	00067		Pilot 3
:01010101FC	:01010100FD	:010100430001BA	00068		Pilot 4
:01010101FC	:01010100FD	:010100440001B9	00069		Pilot 5
:01010101FC	:01010100FD	:010100450001B8	00070		Pilot 6
:01010101FC	:01010100FD	:010100460001B7	00071		Pilot 7
:01010101FC	:01010100FD	:010100470001B6	00072		Pilot 8
:01010101FC	:01010100FD	:010100480001B5	00073	Base LightSync Node Address + 1	Pilot 1
:01010101FC	:01010100FD	:010100490001B4	00074		Pilot 2
:01010101FC	:01010100FD	:0101004A0001B3	00075		Pilot 3
:01010101FC	:01010100FD	:0101004B0001B2	00076		Pilot 4
:01010101FC	:01010100FD	:0101004C0001B1	00077		Pilot 5
:01010101FC	:01010100FD	:0101004D0001B0	00078		Pilot 6
:01010101FC	:01010100FD	:0101004E0001AF	00079		Pilot 7
:01010101FC	:01010100FD	:0101004F0001AE	00080		Pilot 8
:01010101FC	:01010100FD	:010100500001AD	00081	Base LightSync Node Address + 2	Pilot 1
:01010101FC	:01010100FD	:010100510001AC	00082		Pilot 2
:01010101FC	:01010100FD	:010100520001AB	00083		Pilot 3
:01010101FC	:01010100FD	:010100530001AA	00084		Pilot 4
:01010101FC	:01010100FD	:010100540001A9	00085		Pilot 5
:01010101FC	:01010100FD	:010100550001A8	00086		Pilot 6
:01010101FC	:01010100FD	:010100560001A7	00087		Pilot 7
:01010101FC	:01010100FD	:010100570001A6	00088		Pilot 8
:01010101FC	:01010100FD	:010100580001A5	00089	Base LightSync Node Address + 3	Pilot 1
:01010101FC	:01010100FD	:010100590001A4	00090		Pilot 2
:01010101FC	:01010100FD	:0101005A0001A3	00091		Pilot 3
:01010101FC	:01010100FD	:0101005B0001A2	00092		Pilot 4

:01010101FC	:01010100FD	:0101005C0001A1	00093		Pilot 5
:01010101FC	:01010100FD	:0101005D0001A0	00094		Pilot 6
:01010101FC	:01010100FD	:0101005E00019F	00095		Pilot 7
:01010101FC	:01010100FD	:0101005F00019E	00096		Pilot 8
:01010101FC	:01010100FD	:0101006000019D	00097	Base LightSync Node Address + 4	Pilot 1
:01010101FC	:01010100FD	:0101006100019C	00098		Pilot 2
:01010101FC	:01010100FD	:0101006200019B	00099		Pilot 3
:01010101FC	:01010100FD	:0101006300019A	00100		Pilot 4
:01010101FC	:01010100FD	:01010064000199	00101		Pilot 5
:01010101FC	:01010100FD	:01010065000198	00102		Pilot 6
:01010101FC	:01010100FD	:01010066000197	00103		Pilot 7
:01010101FC	:01010100FD	:01010067000196	00104		Pilot 8
:01010101FC	:01010100FD	:01010068000195	00105	Base LightSync Node Address + 5	Pilot 1
:01010101FC	:01010100FD	:01010069000194	00106		Pilot 2
:01010101FC	:01010100FD	:0101006A000193	00107		Pilot 3
:01010101FC	:01010100FD	:0101006B000192	00108		Pilot 4
:01010101FC	:01010100FD	:0101006C000191	00109		Pilot 5
:01010101FC	:01010100FD	:0101006D000190	00110		Pilot 6
:01010101FC	:01010100FD	:0101006E00018F	00111		Pilot 7
:01010101FC	:01010100FD	:0101006F00018E	00112		Pilot 8
:01010101FC	:01010100FD	:0101007000018D	00113	Base LightSync Node Address + 6	Pilot 1
:01010101FC	:01010100FD	:0101007100018C	00114		Pilot 2
:01010101FC	:01010100FD	:0101007200018B	00115		Pilot 3
:01010101FC	:01010100FD	:0101007300018A	00116		Pilot 4
:01010101FC	:01010100FD	:01010074000189	00117		Pilot 5
:01010101FC	:01010100FD	:01010075000188	00118		Pilot 6
:01010101FC	:01010100FD	:01010076000187	00119		Pilot 7
:01010101FC	:01010100FD	:01010077000186	00120		Pilot 8
:01010101FC	:01010100FD	:01010078000185	00121	Base LightSync Node Address + 7	Pilot 1
:01010101FC	:01010100FD	:01010079000184	00122		Pilot 2
:01010101FC	:01010100FD	:0101007A000183	00123		Pilot 3
:01010101FC	:01010100FD	:0101007B000182	00124		Pilot 4
:01010101FC	:01010100FD	:0101007C000181	00125		Pilot 5
:01010101FC	:01010100FD	:0101007D000180	00126		Pilot 6
:01010101FC	:01010100FD	:0101007E00017F	00127		Pilot 7
:01010101FC	:01010100FD	:0101007F00017E	00128		Pilot 8