

Model **IO-Link Signal Beacons**
Type **NE-IL**

Vendor ID	763
Vendor Name	PATLITE Corporation
Device ID	60001
Vendor Url	www.patlite.com
Device Name	NE-IL

IO-Link Revision	1.1			
Bit rate	COM2 (38.4 kbps)			
Minimum cycle time	8 ms			
Data length	input from master	2 byte	output to master	2 byte

Parameter (Service data)

Index	Parameter	Access	Byte Length	Default Value	Remarks
2	Standard command	Wo	1		130 - Restore the factory setting
16	Vendor name	Ro	48	PATLITE Corporation	
17	Vendor text	Ro	48	www.patlite.com	
18	Product name	Ro	16	NE-ILNN-M	Model : NE-ILNN-M
			16	NE-ILNB-M	Model : NE-ILNB-M
			16	NE-ILTN-M	Model : NE-ILTN-M
			16	NE-ILTB-M	Model : NE-ILTB-M
			16	NE-ILXB-M	Model : NE-ILXB-M
19	Product ID	Ro	16	NE-ILNN-M	Model : NE-ILNN-M
			16	NE-ILNB-M	Model : NE-ILNB-M
			16	NE-ILTN-M	Model : NE-ILTN-M
			16	NE-ILTB-M	Model : NE-ILTB-M
			16	NE-ILXB-M	Model : NE-ILXB-M
20	Product text	Ro	64	IO-Link Signal Beacons	Model : NE-ILNN-M
			64	IO-Link Signal Beacons, Buzzer	Model : NE-ILNB-M
			64	IO-Link Signal Beacons, Touch Sensor	Model : NE-ILTN-M
			64	IO-Link Signal Beacons, Buzzer, Touch Sensor	Model : NE-ILTB-M
			64	IO-Link Signal Beacons, Buzzer, Touch Sensor, External Inputs	Model : NE-ILXB-M
21	Serial Number	Ro	16	-	
22	Hardware revision	Ro	16	1.00	Hardware latest version
23	Firmware revision	Ro	16	1.00	Software latest version
24	Application text	R / W	32	***	
36	Device status	Ro	1	0	0 - Device OK
					1 - Maintenance required
					2 - Out of specification
					3 - Functional check
					4 - Failure
37	Detailed Device status	Ro	21	0x00 0x0000	5 to 255 - Reserved
					0 - Color Specification Mode
					1 - Level Mode
					2 - Sensor Input Mode
					3 - Digital Input Mode
2000	LED Intensity	R / W	1	0x64	0x00 - 0x64 (0.. 100%)
2001	Buzzer Sound Level	R / W	1	0x64	0x00 - 0x64 (0.. 100%)
2002	SIO LED Color	R / W	1	7	0 - off
					1 - red
					2 - green
					3 - amber
					4 - blue
					5 - purple
					6 - cyan
2003	SIO LED Pattern	R / W	1	0	7 - white
					0 - Continuous Lightning
					1 - Blinking Slow
					2 - Blinking Middle
					3 - Blinking Fast
					4 - Flashing Single
					5 - Flashing Double
					6 - Flashing Triple
2004	Touch Sensor LED Color	R / W	1	7	7 - Sine Slow
					8 - Sine Fast
					0 - off
					1 - red
					2 - green
					3 - amber
					4 - blue
2004	Touch Sensor LED Color	R / W	1	7	5 - purple
					6 - cyan
					7 - white

2005	Touch Sensor LED Pattern	R / W	1	0	0 – Continuous Lightning
					1 – Blinking Slow
					2 – Blinking Middle
					3 – Blinking Fast
					4 – Flashing Single
					5 – Flashing Double
					6 – Flashing Triple
					7 – Sine Slow
					8 – Sine Fast
2006	Touch Sensor Buzzer Pattern	R / W	1	0	0 – Buzzer No.1(off)
					1 – Buzzer No.2
					2 – Buzzer No.3
					3 – Buzzer No.4
					4 – Buzzer No.5
					5 – Buzzer No.6
					6 – Buzzer No.7
					7 – Buzzer No.8
					8 – Buzzer No.9
2007	Digital Input LED Color	R / W	1	7	0 – off
					1 – red
					2 – green
					3 – amber
					4 – blue
					5 – purple
					6 – cyan
					7 – white
2008	Digital Input LED Pattern	R / W	1	0	0 – Continuous Lightning
					1 – Blinking Slow
					2 – Blinking Middle
					3 – Blinking Fast
					4 – Flashing Single
					5 – Flashing Double
					6 – Flashing Triple
					7 – Sine Slow
					8 – Sine Fast
2009	Digital Input Buzzer Pattern	R / W	1	0	0 – Buzzer No.1(off)
					1 – Buzzer No.2
					2 – Buzzer No.3
					3 – Buzzer No.4
					4 – Buzzer No.5
					5 – Buzzer No.6
					6 – Buzzer No.7
					7 – Buzzer No.8
					8 – Buzzer No.9
2010	Analog Input Value Threshold	R / W	20 (2x10)	All 0	0x000 - 0x1F4 (0..500)
2011	Analog Input LED Color	R / W	11	All 0	0 – off
					1 – red
					2 – green
					3 – amber
					4 – blue
					5 – purple
					6 – cyan
					7 – white
2012	Analog Input LED Pattern	R / W	11	All 0	0 – Continuous Lightning
					1 – Blinking Slow
					2 – Blinking Middle
					3 – Blinking Fast
					4 – Flashing Single
					5 – Flashing Double
					6 – Flashing Triple
					7 – Sine Slow
					8 – Sine Fast
2013	Analog Input Buzzer Pattern	R / W	11	All 0	0 – Buzzer No.1(off)
					1 – Buzzer No.2
					2 – Buzzer No.3
					3 – Buzzer No.4
					4 – Buzzer No.5
					5 – Buzzer No.6
					6 – Buzzer No.7
					7 – Buzzer No.8
					8 – Buzzer No.9
2014	Test Mode	R / W	1	0	0 – off
					1 – on

Events

Code	Name	Type	Description
0x0000	No error	Notification	No error
0x5000	Hardware error in the unit	Error	Replace the unit
0x6320	Parameter error	Error	Check the data sheet and the value

Error Type

Error	Name	Discription
0x8000	Device application error – no	There is no detailed information available
0x8011	Index not available	Access to a non-existent index
0x8012	Subindex not available	Access to a non-existent subindex
0x8020	Service temporarily not available	On the parameters just cannot be accessed.
0x8023	Access denied	The device does not allow this in the current state
0x8030	Parameter value out of range	Write access to a read-only parameter
0x8033	Parameter length overrun	Written parameter value is out of range
0x8034	Parameter length underrun	Written parameter length is greater than allowed
0x8035	Function not available	Written parameter length is smaller than allowed
0x8036	Function temporarily unavailable	Written command is not supported by the device
0x8040	Invalid parameter set	Written command is not supported by the device in its current state
0x8041	Inconsistent parameter set	Typed single parameter value collides with the other parameter settings
0x8082	Application not ready	At the end of the block parameter transfer inconsistencies were detected.

Process Data

Color Specification Mode (Index 810): Input from Master

	bit 7	bit 6	bit 5	bit 4	bit 3	bit 2	bit 1	bit 0
Byte 1	Buzzer Pattern				N/N	N/N	N/N	Buzzer On/Off
Byte 0	LED Pattern				N/N	LED Color		

Level mode (Index 810): Input from Master

	bit 7	bit 6	bit 5	bit 4	bit 3	bit 2	bit 1	bit 0
Byte 1	N/N	N/N	N/N	N/N	N/N	N/N	N/N	Analog Input Value (Upper 1 bit of 9 bits)
Byte 0	Analog Input Value (Lower 8 bits of 9 bits)							

Common: Output to Master

	bit 7	bit 6	bit 5	bit 4	bit 3	bit 2	bit 1	bit 0
Byte 1	Touch Sensor	Digital Input	Status 3	Status 2	Status 1	Analog Input Value (Upper 3 bit of 11 bits)		
Byte 0	Analog Input Value (Lower 8 bits of 11 bits)							

*1 On = 1, Off = 0

*2 Pattern List

Buzzer

Value	Configuration
0	Buzzer No.1(off)
1	Buzzer No.2
2	Buzzer No.3
3	Buzzer No.4
4	Buzzer No.5
5	Buzzer No.6
6	Buzzer No.7
7	Buzzer No.8
8	Buzzer No.9

LED

Value	Configuration
0	Continuous Lightning
1	Blinking Slow
2	Blinking Middle
3	Blinking Fast
4	Flashing Single
5	Flashing Double
6	Flashing Triple
7	Sine Slow
8	Sine Fast

*3 Status

Status No.	Configuration
1	Touch Sensor Error
2	Memory Error
3	Reserve