



IMJE-FXLINDEX No.0065-93V

IO-Link setting file (IODD) can be downloaded from our website (<https://panasonic.net/id/pidsx/global>).

1 PHYSICAL LAYER

Model No.	FX-551L3-P-C2	FX-551L3-P-J
Baud rate	COM3 (230.4kbps)	
Minimum cycle time	1ms	
Process data length	4byte	
Vendor ID	834	
Device ID	0x030000	

3 SERVICE DATA (SD)

Index	Sub index	Name	R/W	Back up target	Format	Data length	Default data	Description of settings
2	0	SystemCommand	W		UInteger	1byte		0x43 : Execution of 2-point teaching (first time) 0x44 : Execution of 2-point teaching (second time) 0x47 : Start of full-auto teaching 0x49 : End of full-auto teaching 0x4B : Limit teaching (UP Key) 0x4C : Limit teaching (DOWN Key) 0x4F : Cancellation of teaching 0x82 : Reset setting 0xA0 : Display adjustment setting 0xA2 : Cancellation of display adjustment
12	0	Device Access Locks	R/W		Record	2byte	0	Local user interface lock 0 : Unlock , 8 : Lock Main unit : Linked with key lock
16	0	Vendor Name	R		String	63byte		
17	0	Vendor Text	R		String	63byte		
18	0	Product Name	R		String	63byte		
19	0	Product ID	R		String	63byte		
20	0	Product Text	R		String	63byte		
21	0	Serial Number	R		String	15byte		
22	0	Hardware Version	R		String	3byte		
23	0	Firmware Version	R		String	4byte		
24	0	Application Specific Tag	R/W	o	String	32byte		
37	0	Detailed Device Status	R		UInteger	12byte		
40	0	ProcessDataInput	R		UInteger	4byte		
60	1	Threshold Value Setting	R/W	o	Integer	2byte	40	Std : 10 to 4000 (0x000A to 0x0FA0) Long : 10 to 8000 (0x000A to 0x1F40) U-Lg : 10 to 9999 (0x000A to 0x270F) HyPr : 20 to 9999 (0x0014 to 0x270F)
61	1	Output Operation Setting of C/Q Output	R/W	o	UInteger	1byte	0	0 : Light-ON 1 : Dark-ON
63	1	Output Operation Setting of DO Output	R	o	UInteger	1byte	0	Linkage with Index61_1
64	1	Timer Type	R/W	o	UInteger	1byte	0	0 : No timer 1 : OFF-delay timer 2 : ON-delay timer 4 : One-shot-delay timer
	2	Timer Period	R/W	o	UInteger	2byte	50	Setting range : 1 to 9999 (0x0001 to 0x270F) 1 : 0.1ms , 9999 : 999.9ms
66	0	Response Time	R/W	o	UInteger	1byte	0	0 : Std (250µsec or less) 1 : Long (2msec or less) 2 : U-Lg (4msec or less) 3 : HyPr (24msec or less)
70	0	Emission Halt	R/W	o	UInteger	1byte	0	0 : Emission 1 : Emission halt
74	1	Shift Setting	R/W	o	UInteger	1byte	1	Selection of unit 0 : Digit display 1 : Percentage display
	2	Shift Amount (Percentage display)	R/W	o	UInteger	2byte	15	Percentage display 1 to 999 (0x0001 to 0x03E7)
	3	Shift Amount(Digit display)	R/W	o	UInteger	2byte	100	Setting of range Std : 1 to 4000 (0x0001 to 0x0FA0) Long : 1 to 8000 (0x0001 to 0x1F40) U-Lg : 1 to 9999 (0x0001 to 0x270F) HyPr : 1 to 9999 (0x0001 to 0x270F)

2 PROCESS DATA (PD)

	bit							
	7	6	5	4	3	2	1	0
PD0	Upper byte of incident light intensity data							
PD1	Lower byte of incident light intensity data							
PD2	Fixed 0							

bit	Assignment	Remarks					
			7	6	5	4	3
Control Output (DO)	0 : OFF	1 : ON					
	Fixed 0						
Emission State	0 : Emission halt	1 : Emission					
	Fixed 0						
Information Notification	0 : OFF	1 : ON					
	Fixed 0						
Error Level	0 : Normal	1 : Caution					
	2 : Fault						

Index	Sub index	Name	R/W	Back up target	Format	Data length	Default data	Description of settings
75	1	Threshold Value Tracking	R/W	o	UInteger	2byte	0	Setting range 0 to 9999 (0x0000 to 0x270F) < 0 : OFF >
	2	Output Operation Setting	R/W	o	UInteger	1byte		0 : Follows threshold value when OFF 1 : Follows threshold value when ON
	3	Storage Cycle Setting	R/W	o	UInteger	1byte	0	Setting range: 0 to 250 (0x00 to 0xFA) < 0 : OFF >
	4	Algorithm Setting	R/W	o	UInteger	1byte		0 : Limit teaching 1 : Full auto teaching
76	1	Emitting Frequency Setting	R/W	o	UInteger	1byte	0	Setting 0 : Disabled 1 : Emission frequency setting 2 : Ambient environment resistance setting
	2		R/W	o	UInteger	1byte	0	Frequency setting 0 : F-1 1 : F-2 2 : F-3 3 : F-4 Setting is valid only when "Emission frequency setting" is enabled. (0 in all other cases)
77	0	Light Sensitivity Setting	R/W	o	UInteger	1byte	3	0 : Level 1 1 : Level 2 2 : Level 3 3 : Level 4 (Sensitivity: High)
80	0	ECO Setting	R/W	o	UInteger	1byte	0	0 : OFF 1 : ON 3 : FULL
82	0	Setting of Digital Display Turning	R/W	o	UInteger	1byte	0	0 : Turning OFF 1 : Turning ON
83	1	Setting Items in Digital Display Setting	R/W	o	UInteger	1byte	0	0 : Incident light intensity 1 : Displayed in percentage 2 : Peak / bottom value
	2	Time Period Hold Setting	R/W	o	UInteger	1byte	0	0 : OFF 1 : ON
84	0	Display Adjustment Setting	R		UInteger	1byte		0 : Not executed 1 : In execution
85	0	Teaching Lock	R/W	o	UInteger	1byte	0	Use of main unit for teaching 0 : Enabled 1 : Disabled
160	0	Preventive Maintenance Threshold 1	R/W	o	Integer	1byte	0	0 : 120% of threshold value 1 : 150% of threshold value 2 : 200% of threshold value
161	0	Preventive Maintenance Threshold 2	R/W	o	Integer	1byte	0	0 : 70% of threshold value 1 : 50% of threshold value
162	0	Delay time in preventive maintenance threshold value detection	R/W	o	UInteger	1byte	2	0 : None 1 : Fast 2 : Normal 3 : Slow
163	0	Operating Time	R		UInteger	4byte	0	Cumulative operating period (Units: h) (Note)
164	0	Number of Data Save Operations	R		UInteger	4byte	0	Number of times data is saved to non-volatile memory
168	0	Notification Flag Setting	R/W	o	UInteger	1byte	0	0 : Notify 1 : Do not notify
169	0	Notification Event Code	R		UInteger	2byte		Newest event code readout

Note: This is not added to the cumulative operating period if the operating time is less than 1 hour.

4 EVENT FUNCTION

Error indication	Event code	Error level	State	
$\overline{E}r\ \overline{I}1$	0x7710	Fault	Detection of output wire short-circuit / overcurrent	
$\overline{E}r\ \overline{O}1$	0x1801	Fault	Non-volatile memory abnormality	
$\overline{E}r\ \overline{O}2$	0x1802	Fault	Non-volatile memory write error	
Display of measured value	0x8D00	Caution	Operating time exceeded	
Display of measured value	0x8D01	Caution	Max. number of the nonvolatile memory save operations exceeded	
Display of measured value	0x8CA3	Normal	Unstable light receiving / shielding condition	Information notification (Note)

Note: When notification event codes are continuously read from the high-level master side, "0x0000" will be read out even if the event status remains.

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