SENSOPART

Data sheet

IO-Link

FT 04-R-PSL-..

096-00030 19.03.2019-00
www.sensopart.com

GENERAL INFORMATION	
Communication mode IO-Link	COM 2
Min. cycle time	10 ms
SIO mode	Supported
Length process data	2 Bit
Vendor ID	347 (0x01 0x5B)
Device ID	33281 / 33537
Specification IO-Link	1.0
Service PDU	Not supported

PROCESS DATA

Bit	Name	Description
1	Stability alarm	Value "True" if detection is not stable (not enough margin on 20 consecutive detections).
0	Detection state	Value "True" if object is detected.

DEVICE-SPECIFIC PARAMETER DATA TABLE

Direct parameter page 2 address dec / hex	Index dec / hex	Subindex dec / hex	Length	Bit offset	Access	Default value	Range	Description	Comment
16/ 0x10	1 / 0x01	1 / 0x01	2 Bit	6	Read / write	0	0 ... 3	On delay	0 = 0.1 ms 1 = 0.4 ms 2 = 1.6 ms 3 = 6.4 ms
		1 / 0x01	2 Bit	4	Read / write	0	0 ... 3	Off delay	0 = 0.1 ms 1 = 0.4 ms 2 = 1.6 ms 3 = 6.4 ms
		1 / 0x01	2 Bit	2	Read / write	0	0 ... 3	Output configuration	0 = NO 1 = NC 2 = stability alarm (NO) (if not enough margin on 20 consecutive detections) 3 = stability alarm (NC) (if not enough margin on 20 consecutive detections)
		1 / 0x01	2 Bit	0				Reserved	
17 / 0x11		2 / 0x02	8 Bit	0	Read / write	0	0 ... 255	On delay multiplier	Multiplier for the on delay timer. Example: a value of 100 and an on delay of 1.6 ms (parameter: on delay = 2) generates a delay of 160 ms.
18 / 0x12		3 / 0x03	8 Bit	0	Read / write	0	0 ... 255	Off delay multiplier	Multiplier for the off delay timer. Example: a value of 100 and an off delay of 1.6 ms (parameter: off delay = 2) generates a delay of 160 ms.
19 / 0x13		4 / 0x04	2 Bit	0	Read / write	1023	0 ... 1023	Sensitivity	Sensitivity adjustment 0 to 1023, 1023 = maximum range
20 / 0x14		5 / 0x05	8 Bit	0					
21 / 0x15		6 / 0x06	4 Bit	4				Reserved	
		6 / 0x06	4 Bit	0	Read / write	2	1 ... 3	Switching frequency	1 = fine 500 Hz 2 = normal 1 kHz 3 = fast 2.5 kHz
22 / 0x16		7 / 0x07	2 Bit	0	Write	0	0 ... 3	Teach-in	0 = Idle 1 = Single value teach 2 = Two value teach - teachpoint 1 3 = Two value teach - teachpoint 2
23 / 0x17		8 / 0x08	8 Bit	0	Read / write			Counter	Counter MSB. Any read operation refreshes the LSB. Counter LSB. Any write operation resets the counter to 0.
24 / 0x18		9 / 0x09	8 Bit	0					
25 / 0x19		10 / 0x0A	7 Bit	0	Read / write			Event flags	See table below. All flags generate a "Device Warning" in IO-Link-standard "Event" byte. Writing any value will reset the flag.
26 / 0x1A		11 / 0x0B	8 Bit	0	Read			Maximum lifetime temperature	Temperature [°C] = (value*115/129)-54.125
27 / 0x1B		12 / 0x0C	8 Bit	0	Read			Current temperature	

EVENT FLAGS DESCRIPTION (SUBINDEX 10)

Bit	Name	Description
6	LED regulation limit	If 1, the limit on LED regulator is reached, no additional compensation possible
5	Disturbance on receiver	If 1, a disturbance has been detected on receiver stage
4	Undervoltage IO-Link	If 1, supply voltage below IO-Link required level has been detected
3	Undervoltage sensor	If 1, supply voltage below required level has been detected
2	Maximum temperature	If 1, new maximum temperature has been detected
1	EMC	If 1, an EMC event has been detected
0	Short-circuit detection	If 1, too high current causing short circuit protection