


FT 25-RFx-PNSL-...

 096-00015 19.02.2019-01
 www.sensopart.com

GENERAL INFORMATION	
Communication mode IO-Link	COM 2
Min. cycle time	2.3 ms
SIO mode	supported
Length process data	16 Bit
Vendor ID	347 (0x01 0x5B)
Device ID	5889
Data storage	supported
Specification IO-Link	1.1

PROCESS DATA															
SMART-SENSOR PROFILE															
Byte 0							Byte 1								
7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0
MSB D7	D6	D5	D4	D3	D2	D1	LSB D0	X	X	X	X	X	X	X	
Signal quality 0 ... 100 %															
Signal quality score - adjustable via index 0xC4															
Switching output 1 - corresponds to switching output Q ₁ in SIO-mode															

IDENTIFICATION DATA						
Index dec / hex	Access	Data type	Length		Description	Comment
16 / 0x10	Read	String	Max. 64 Byte		Vendor name	SensoPart Industriesensorik GmbH
17 / 0x11					Vendor text	www.sensopart.com
18 / 0x12					Product name	FT 25-RFx-PNSL-...
19 / 0x32					Product ID	608-11058 608-11059 608-11060 608-11061 608-11062
20 / 0x11					Product text	Device specific
23 / 0x17					Firmware revision	1.0

SMART SENSOR PROFILE PARAMETER								
Index in dec / hex	Access	Data type	Length	Subindex	Default value	Range	Description	Comment
12 / 0x0C	Read / write	Uint	16 Bit		0x00 0x00	D0, D1, D3	Lock functions	D0 - parameter write access D1 - data storage lock D3 - local user interface lock
24 / 0x18	Read / write	StringT	32 characters		**** ..****		Application text	Free text, e.g. item designation

PARAMETER								
Index dec / hex	Access	Data type	Length	Subindex	Default value	Range	Description	Comment
88 / 0x58	Read	Uint	32 Bit	1			Read operating data	
				2			Counter operating hours	No reset possible
							Counter switch cycle	No reset possible
95 / 0x5F	Read	String		1			Read sensor characteristics	
				5			Operating range	
				6			Type of light	
				7			No-load current	
				9			Switching frequency	
196 / 0xC4	Read / write	Uint	8 Bit		10	10 ... 90	Ambient temperature	
							Signal quality level	
208 / 0xD0	Read / write	Uint	16 Bit	1		0 ... 65535	Signal quality level	%
				2			Smart functions Q ₁ (physical pin)	
				3			Counter	
				4			On delay	In ms, adjustable in 1 ms
				5			Off delay	In ms, adjustable in 1 ms
213 / 0xD5	Read / write	Uint	8 Bit	1	2	0, 1, 2	Impulse	In ms, adjustable in 1 ms
				2			Monitoring frequency	In 1/10 Hz, adjustable in 0.1 Hz steps
221 / 0xDD	Read / write	Uint	8 Bit	1	1	0, 1	Function switching output Q ₁ (physical pin)	
							Control input	
							Control input PIN 2	0 = PIN 2 disable 1 = PIN 2 active

SYSTEM COMMANDS

Index dec / hex	Access	Data type	Length	Function dec / hex	Range	Description	Comment
				160 / 0xA0		Emitter off	
				161 / 0xA1		Emitter on	
				162 / 0xA2		Reset switching channel	Reset of current switching channel
				175 / 0xAF		Detect sensor	1x activated - sensor flashes 60 s 2x activated - permanent flashing 3x activated - stop permanent flashing
				128 / 0x80		Reset sensor	
				130 / 0x82		Factory setting	

EVENTS

Event	Status value	Warning		
20480 / 0x5000	4	Error	Device hardware fault	Default: deactivated ¹⁾
20497 / 0x5011	4	Error	Non-volatile memory loss	
65425 / 0xFF91	0	Notice	Data storage - upload request	Not blockable via 0x51
16384 / 0x4000	4	Error	Temperature fault	Temperature range exceeded; default: deactivated ¹⁾

¹⁾ For activation use function 0x51