



FT 25-RGB1-2GSL-...

096-00034 10.04.2019-00
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	37633
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
E MSB	D6	D5	D4	D3	D2	D1	E LSB	X	X	X	X	X	X	Quality	Switching output Q ₂
Energy value 0 ... 255															
Quality: quality bit															
Switching output 1 (physical)															

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-RGB1-2GSL-KL4 FT 25-RGB1-2GSL-M4M	
19 / 0x32				Product ID	607-21042 607-21044	
20 / 0x11				Product text	Device specific	
23 / 0x17				Firmware revision	1.0	

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
59 / 0xCC	Read	Uint	8 Bit				Teach-in status	

PARAMETER								
Index dec / hex	Access	Data type	Length	Subindex	Default value	Range	Description	Comment
88 / 0x58	Read	Uint	32 Bit				Read operating data	
				1			Counter operating hours	No reset possible
				2			Counter switch cycle	No reset possible
95 / 0x5F	Read	String		1	12 ± 3 mm		Operating range	
				5	LED, red, 633 nm LED, green, 525 nm LED, blue, 460 nm		Type of light	
				6	≤ 30 mA		No-load current	
				7	Device specific		Switching frequency	
				9	-20 ... 55 °C		Ambient temperature	

Switching outputs settings Q ₂								
Index dec / hex	Access	Data type	Length	Subindex	Default value	Range	Description	Comment
96 / 0x60	Read / write	Uint	8 Bit	1	41	0 ... 255	Switching point	
				2	2	0, 1, 2	Light operation Dark operation	0 = light operation (LO) 1 = dark operation (DO) 2 = auto DO/LO via teach
				3	7	0, 1, 2, 3, 4, 5, 6, 7, 8	LED-Power	0 = lowest sending power 8 = highest sending power
				4	1	0, 1, 2	Type of LED	0 = red 1 = green 2 = blue
Switching quality								
0xCF	Read	Uint	8 Bit	1		0 ... 100		
Quality level								
0xC4	Read / write	Uint	8 Bit		10	10 ... 100		
Switching quality teach								
0xC9	Read	Uint	8 Bit			0 ... 100		

SYSTEM COMMANDS

Index dec / hex	Access	Data type	Length	Function dec / hex	Range	Description	Comment
2 / 0x02	Read / write	Uint	8 Bit	64 / 0x40		Teach apply	Adopt teach values on sensor
				65 / 0x41		Single value teach - switching point 1	The switching point is on the teach value
				67 / 0x43		Two value teach - teachpoint 1 for switching point 1	The switching point is in the middle of both teachpoints
				68 / 0x44		Two value teach - teachpoint 2 for switching point 1	
				71 / 0x47		Dynamic teach - switching point 1 - start	The switching point is in the middle of the min. / max. value
				72 / 0x48		Dynamic teach - switching point 1 - stop	
				79 / 0x4F		Teach cancel	
				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