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Please note the validity of the additional operating instructions for automation functions

ENGLISH

1. Physical layer

Power-on time: < 5s

Note: The IO-Link Device's max. current consumption (inclusive load current) shall not exceed the the master port's max. output power current.

SIO Modus	yes
Min Cycle Time	2300 µs
Baudrate	COM2
Process Data Length	16 Bit

2. Process data

Record: 2 Byte									
Bitoffset									
Byte 0	Level	15	14	13	12	11	10	9	8
Type/Subindex	Unsigned Integer 14								
Bitoffset									
Byte 1	Level	7	6	5	4	3	2	1	0
Type/Subindex	Unsigned Integer 14								

3. Service data

IO-Link specific							
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark [Unit]
0 (0x00)	Direct Parameters 1	Record	16 Byte	rw			
1 (0x01)	Direct Parameters 2	Record	16 Byte	rw			
16 (0x10)	Vendor Name	String	64 Byte	ro	SICK AG		
17 (0x11)	Vendor Text	String	64 Byte	ro			
18 (0x12)	Product Name	String	64 Byte	ro			
19 (0x13)	Product ID	String	64 Byte	ro			
21 (0x15)	Serial Number	String	16 Byte	ro			
22 (0x16)	Hardware Version	String	64 Byte	ro			
23 (0x17)	Firmware Version	String	64 Byte	ro			
24 (0x18)	Application Specific Name	String	16 Byte	rw			

SICK device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark [Unit]
64 (0x40)	SP1	UInt	16 Bit	rw			Set point for Q1 [mm]
65 (0x41)	RP1	UInt	16 Bit	rw			Reset point for Q1 [mm]
66 (0x42)	OUT1	UInt	8 Bit	rw		0 = Normally Open 1 = Normally Close	Logic of Q1
68 (0x44)	SP2_FH2	UInt	16 Bit	rw			Set point for Q2 or high switching point in window mode [mm]
69 (0x45)	RP2_FL2	UInt	16 Bit	rw			Reset point for Q2 or low switching point in window mode [mm]
70 (0x46)	OUT2	UInt	8 Bit	rw		0 = Normally Open 1 = Normally Close 2 = Window mode normally open 3 = Window mode normally closed 4 = System Failure 5 = System Failure Inverted	Logic of Q2

¹ro = read only, wo = write only, rw = read/write / ro = nur lesen, wo = nur schreiben, rw = lesen/schreiben

DEUTSCH

1. Physikalische Schicht

Einschaltzeit: < 5s

Hinweis: Max. Stromaufnahme des IO-Link Devices (inkl. Lastströme) darf max. Ausgangsstrom des Master-Ports nicht überschreiten.

SIO Modus	ja
Min. Zykluszeit	2300 µs
Baudrate	COM2
Prozessdatenlänge	16 Bit

2. Prozessdaten

Record: 2 Byte									
Bitoffset									
Byte 0	Füllstand	15	14	13	12	11	10	9	8
Type/Subindex	Unsigned Integer 14								
Bitoffset									
Byte 1	Füllstand	7	6	5	4	3	2	1	0
Type/Subindex	Unsigned Integer 14								

3. Servicedaten

IO-Link spezifisch									
Index dez (hex)	Name	Format (Offset)	Länge	Zugriff ¹	Standard Wert	Wertebereich	Bemerkung [Einheit]		
0 (0x00)	Direkte Parameter 1	Record	16 Byte	rw					
1 (0x01)	Direkte Parameter 2	Record	16 Byte	rw					
16 (0x10)	Herstellername	String	64 Byte	ro	SICK AG				
17 (0x11)	Herstellertext	String	64 Byte	ro					
18 (0x12)	Produktname	String	64 Byte	ro					
19 (0x13)	Produkt-ID	String	64 Byte	ro					
21 (0x15)	Seriennummer	String	16 Byte	ro					
22 (0x16)	Hardwareversion	String	64 Byte	ro					
23 (0x17)	Firmwareversion	String	64 Byte	ro					
24 (0x18)	Anwendungsspezifischer Name	String	16 Byte	rw					

SICK spezifisch									
Index dez (hex)	Name	Format (Offset)	Länge	Zugriff ¹	Standard Wert	Wertebereich	Bemerkung [Einheit]		
64 (0x40)	SP1	UInt	16 Bit	rw			Schaltpunkt Q1 [mm]		
65 (0x41)	RP1	UInt	16 Bit	rw			Rückschaltpunkt Q1 [mm]		
66 (0x42)	OUT1	UInt	8 Bit	rw		0 = Schließer 1 = Öffner	Polarität Q1		
68 (0x44)	SP2_FH2	UInt	16 Bit	rw			Schaltpunkt Q2 [mm]		
69 (0x45)	RP2_FL2	UInt	16 Bit	rw			Rückschaltpunkt Q2 [mm]		
70 (0x46)	OUT2	UInt	8 Bit	rw		0 = Schließer 1 = Öffner 2 = Fensterbetrieb Schließer 3 = Fensterbetrieb Öffner 4 = System Fehler 5 = System Fehler invertiert	Polarität Q2		
71 (0x47)	Q2Type	UInt	8 Bit	rw		0 = PNP 1 = NPN 2 = Drive / Push-Pull	Art des Ausgangsschalters Q2		
72 (0x48)	QALow	UInt	16 Bit	rw			[mm]		
73 (0x49)	QAHigh	UInt	16 Bit	rw			[mm]		



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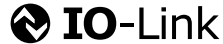
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SICK device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark [Unit]
71 (0x47)	Q2Type	UInt	8 Bit	rw		0 = PNP 1 = NPN 2 = Drive / Push-Pull	Type of output switch Q2
72 (0x48)	QALow	UInt	16 Bit	rw			[mm]
73 (0x49)	QAHigh	UInt	16 Bit	rw			[mm]
74 (0x4A)	QAType	UInt	8 Bit	rw		0 = 4-20mA 1 = 0-10V 2 = AutoDetect 3 = AutoDetect_4-20mA 4 = AutoDetect_0-10V	
75 (0x4B)	QAFailCurrent	UInt	8 Bit	rw		0 = 3.5mA 1 = 21.5mA	
76 (0x4C)	QAPOL	UInt	8 Bit	rw		0 = Normal 1 = Inverse	Polarity of QA
126 (0x7E)	DeviceMonitor	Record	2 Byte	ro			
127 (0x7F)	DisplayText	String	6 Byte	ro			
128 (0x80)	Simulate Measured Value	UInt	8 Bit	rw		0 = Normally Measuring Mode 1 = Simulated Level	
129 (0x81)	Level	UInt	16 Bit	rw			[mm]

DEUTSCH							
SICK spezifisch							
Index dez (hex)	Name	Format (Offset)	Länge	Zugriff ¹	Standard Wert	Wertebereich	Bemerkung [Einheit]
74 (0x4A)	QAType	UInt	8 Bit	rw		0 = 4-20mA 1 = 0-10V 2 = AutoErkennung 3 = AutoErkennung_4-20mA 4 = AutoErkennung_0-10V	
75 (0x4B)	QAFehlerstrom	UInt	8 Bit	rw		0 = 3.5mA 1 = 21.5mA	
76 (0x4C)	QAPOL	UInt	8 Bit	rw		0 = Normal 1 = Invers	Polarität QA
126 (0x7E)	System Monitor	Record	2 Byte	ro			
127 (0x7F)	Anzeigetext	String	6 Byte	ro			
128 (0x80)	Simuliere Messwert	UInt	8 Bit	rw		0 = Normal sender Betrieb 1 = Simulierter Messwert	
129 (0x81)	Füllstand	UInt	16 Bit	rw			[mm]

¹ ro = read only, wo = write only, rw = read/write / ro = nur lesen, wo = nur schreiben, rw = lesen/schreiben