

SICK

8017735 0814

WL4SC-3 S05

2132318427
9215738 0814

Australia
Phone +61 3 9467 0800

Belgium/Luxembourg
Phone +32 (0)2 468 55 66

Brazil
Phone +55 11 5215-9900

Canada
Phone +1 905 771 14 44

China
Phone +86 400 121 000
+852 2553 6300

Danmark
Phone +45 45 82 64 00

Deutschland
Phone +49 211 5301 301

España
Phone +34 93 480 31 00

France
Phone +33 1 64 62 39 00

Great Britain
Phone +44 (0)1727 831521

India
Phone +91-22-4033 8333

Israel
Phone +972-4-6801000

Italia
Phone +39 02 27 43 41

Japan
Phone +81 (03) 5309 2112

Magnesium
Phone +36 1 371 2680

Niederland
Phone +31 (0)30 229 25 44

Osterreich
Phone +43 (0)22 36 62 28 8-0

Norge
Phone +47 67 61 51 50 00

Polka
Phone +48 22 837 40 50

România
Phone +40 356 171 120

Russland
Phone +7 495 775-09-30

Schweden
Phone +46 8 744 3732

Sveits
Phone +41 41 619 29 39

Südkorea
Phone +82 2 786 6321/4

Suomi
Phone +358 9 25 15 800

Sverige
Phone +46 10 110 10 00

Taiwan
Phone +886-2-2375-6288

Türkiye
Phone +90 (216) 538 50 00

United Arab Emirates
Phone +971 (0)4 5865 878

USA/Mexico
Phone +1 2952 941 6780

SICK AG, Erwin-Sick-Strasse 1, D 79183 Waldkirch

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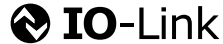
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Please note the validity of the additional operating instructions for automation functions

ENGLISH

1. Physical layer

SIO Modus	yes
Min Cycle Time	2300 µs
Baudrate	COM2
Process Data Length	8 Bit

2. Process data

Record: 1 Byte	
Bitoffset	0 1
Byte 0	7 6 5 4 3 2 Bit1 Bit0
Subindex	Boolean 2 Boolean 1

3. Service data

IO-Link specific	Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark
	0 (0x00)	Direct Parameters 1	Record	16 Byte	rw			
	1 (0x01)	Direct Parameters 2	Record	16 Byte	rw			
	16 (0x10)	Vendor Name	String	7 Byte	ro	SICK AG		
	18 (0x12)	Product Name	String	18 Byte	ro			
	19 (0x13)	Product ID	String	7 Byte	ro			
	20 (0x14)	Product Text	String	45 Byte	ro			
	21 (0x15)	Serial Number	String	8 Byte	ro			
	22 (0x16)	Hardware Version	String	4 Byte	ro			
	23 (0x17)	Firmware Version	String	4 Byte	ro			
	24 (0x18)	Application Specific Name	String	32 Byte	rw	*****		
	40 (0x28)	Process Data Input	PD In	1 Byte	ro			

SICK device specific

Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark
13 (0x0D)	Profile Characteristic	Array	8 Byte	ro		Unsigned Integer16 [4]	
14 (0x0E)	PDInput Descriptor	Array	3 Byte	ro		Octet String [1]	
15 (0x0F)	PDOOutput Descriptor	Array	3 Byte	ro		Octet String [1]	
58 (0x3A)	Teach-In Channel	UInt	8 Bit	rw		0...2 = Default BDC	
59 (0x3B)	Teach-In State	Record	1 Byte	ro			
60 (0x3C)	Setpoint 1	Record	2 Byte	rw			
61 (0x3D)	Q1 configuration	Record	4 Byte	rw			
62 (0x3E)	Setpoint 2	Record	2 Byte	rw			
63 (0x3F)	Q2 configuration	Record	4 Byte	rw			
64 (0x40)	Device / function name	String	32 Byte	rw	*****		
83 (0x53)	Detection Mode WL	UInt	8 Bit	rw	0	0 = Transparent Object Mode 1 = Transparent Foil Mode 2 = Non-transparent Mode 3 = Manual Mode	
97 (0x61)	Sender configuration	UInt	8 Bit	rw	0	0 = Sender active 1 = Sender not active	
112 (0x70)	Continuous threshold adaptation (CTA)	UInt	8 Bit	rw	1	0 = off 1 = on - time based 2 = on - event based	
113 (0x71)	Threshold Presetting	UInt	8 Bit	rw	0	0 = 10% (Transparent Mode) 1 = 18% (Transparent Mode) 2 = 40% (Transparent Mode) 3 = Non-transparent Mode 4 = Manual Mode	
114 (0x72)	Quality of teach	UInt	8 Bit	ro		0...100 [%]	
121 (0x79)	Pin 2 configuration	UInt	8 Bit	rw	32	0 = Deactivated 1 = External input 16 = Sender off 17 = Teach-in 32 = Detection output Q/ 33 = Quality of run alarm output 34 = Switching signal Q2	
175 (0xAF)	Quality of run	UInt	8 Bit	ro		0...255 [%]	
176 (0xB0)	Quality of run alarm	UInt	8 Bit	rw	50	0...90 [%]	
180 (0xB4)	Current receiver level (live)	UInt	8 Bit	ro		0...255 [%]	
181 (0xB5)	Upper Threshold (switch-on) dynamic	UInt	8 Bit	ro		0...255 [%]	
182 (0xB6)	Lower Threshold (switch-off) dynamic	UInt	8 Bit	ro		0...255 [%]	
205 (0xCD)	SICK profile version	String	4 Byte	ro			
212 (0xD4)	Timer 1 mode	UInt	8 Bit	rw	0	0 = deactivated 1 = T-on delay 2 = T-off delay 3 = T-on/T-off delay 4 = Impulse (one shot)	
213 (0xD5)	Timer 2 mode	UInt	8 Bit	rw	0	0 = deactivated 1 = T-on delay 2 = T-off delay 3 = T-on/T-off delay 4 = Impulse (one shot)	

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

DEUTSCH

1. Physikalische Schicht

SIO Modus	ja
Min. Zykluszeit	2300 µs
Baudrate	COM2
Prozessdatenlänge	8 Bit

2. Prozessdaten

Record: 1 Byte	
Bitoffset	0 1
Byte 0	7 6 5 4 3 2 Bit1 Bit0
Subindex	Boolean 2 Boolean 1

3. Servicedaten

IO-Link spezifisch	Index dez (hex)	Name	Format (Offset)	Länge	Zugriff ¹	Standard Wert	Wertebereich	Bemerkung
	0 (0x00)	Direkte Parameter 1	Record	16 Byte	rw			
	1 (0x01)	Direkte Parameter 2	Record	16 Byte	rw			
	16 (0x10)	Herstellername	String	7 Byte	ro	SICK AG		
	18 (0x12)	Produktname	String	18 Byte	ro			
	19 (0x13)	Produkt-ID	String	7 Byte	ro			
	20 (0x14)	Produkttext	String	45 Byte	ro			
	21 (0x15)	Seriennummer	String	8 Byte	ro			
	22 (0x16)	Hardwareversion	String	4 Byte	ro			
	23 (0x17)	Firmwareversion	String	4 Byte	ro			
	24 (0x18)	Anwendungsspezifischer Name	String	32 Byte	rw	*****		
	40 (0x28)	Prozessdaten Eingang	PD In	1 Byte	ro			

SICK spezifisch

Index dez (hex)	Name	Format (Offset)	Länge	Zugriff ¹	Standard Wert	Wertebereich	Bemerkung
13 (0x0D)	Profile Characteristic	Array	8 Byte	ro		Unsigned Integer16 [4]	
14 (0x0E)	PDInput Descriptor	Array	3 Byte	ro		Octet String [1]	
15 (0x0F)	PDOOutput Descriptor	Array	3 Byte	ro		Octet String [1]	
58 (0x3A)	Teach-In-Kanal	UInt	8 Bit	rw		0...2 = Standard-BDC	
59 (0x3B)	Teach-in-Status	Record	1 Byte	ro			
60 (0x3C)	Setpoint 1	Record	2 Byte	rw			
61 (0x3D)	Q1-Konfiguration	Record	4 Byte	rw			
62 (0x3E)	Setpoint 2	Record	2 Byte	rw			
63 (0x3F)	Q2-Konfiguration	Record	4 Byte	rw			
64 (0x40)	Gerätename/ -funktion	String	32 Byte	rw	*****		
83 (0x53)	Detektionsmodus WL	UInt	8 Bit	rw	0	0 = Transparente Objekte 1 = Transparente Folien 2 = Nichttransparente Objekte 3 = Manuell	
97 (0x61)	Einstellung Sender	UInt	8 Bit	rw	0	0 = Sender aktiv 1 = Sender nicht aktiv	
112 (0x70)	Automatische Schaltschwellennachführung	UInt	8 Bit	rw	1	0 = aus 1 = ein - zeitbasiert 2 = ein - eventbasiert	
113 (0x71)	Schaltschwellenmodi	UInt	8 Bit	rw	0	0 = 10% (Transparente Objekte Modus) 1 = 18% (Transparente Objekte Modus) 2 = 40% (Transparente Objekte Modus) 3 = Nichttransparente Objekte Modus 4 = Manuell	
114 (0x72)	Teach-in-Qualität	UInt	8 Bit	ro		0...100 [%]	
121 (0x79)	Pin-2-Konfiguration	UInt	8 Bit	rw	32	0 = Deaktiviert 1 = Externer Eingang 16 = Sender Aus 17 = Teach-in 32 = Detektionsausgang Q/ 33 = Alarmausgang Betriebssicherheit 34 = Schaltsignal Q2	
175 (0xAF)	Betriebssicherheit	UInt	8 Bit	ro		0...255 [%]	
176 (0xB0)	Alarmschwelle Betriebssicherheit	UInt	8 Bit	rw	50	0...90 [%]	
180 (0xB4)	Aktueller Empfangssignalepegel	UInt	8 Bit	ro		0...255 [%]	
181 (0xB5)	Einschaltsschwelle dynamisch	UInt	8 Bit	ro		0...255 [%]	
182 (0xB6)	Ausschaltsschwelle dynamisch	UInt	8 Bit	ro		0...255 [%]	
205 (0xCD)	SICK-Profilversion	String	4 Byte	ro			



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Belgium/Luxembourg Phone +32 (0)2 468 35 66	Norge Phone +47 67 61 50 00
Brasil Phone +55 11 3215-4900	Polka Phone +48 22 837 40 50
Canada Phone +1 905 771 14 44	România Phone +40 356 171 120
China Phone +86 4000 121 000 +86 2153 6300	Rusia Phone +7 495 775 09 30
Danmark Phone +45 45 82 64 00	Schweiz Phone +41 41 619 29 39
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India Phone +91-22-4033 8333	Sverige Phone +46 10 110 10 00
Italy Phone +39 02 27 43 41 41	Taiwan Phone +886 2 2375-6288
Japan Phone +81 (03) 5309 2112	Türkiye Phone +90 (216) 538 50 00
Magyarország Phone +36 1 371 2680	United Arab Emirates Phone +971 (0)4 5565 878
Niederland Phone +31 (0)30 229 25 44	USA/Mexico Phone +1 950 941 6780

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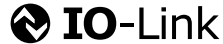
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ENGLISH

SICK device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark
214 (0xD6)	Time 1 setup	UInt	16 Bit	rw	1	1...30000	[ms]
215 (0xD7)	Time 2 setup	UInt	16 Bit	rw	1	1...30000	[ms]
216 (0xD8)	Logic 1	UInt	8 Bit	rw	0	0 = DIRECT 1 = AND 2 = OR 3 = Window Mode 4 = Hysteresis	
218 (0xDA)	Logic 2	UInt	8 Bit	rw	0	0 = DIRECT 1 = AND 2 = OR 3 = Window Mode 4 = Hysteresis	
226 (0xE2)	System state	Record	1 Byte	ro			

Standard command					
Index dec (hex)	Name	Access ¹	Value	Remark	
2 (0x02)	Standard Command	wo	65 130	Single Value Teach Restore Factory Settings	

Events			
Code dec (hex)	Name	Type	Remark
21520 (0x5410)	Short circuit on output	Warning	
25424 (0x6350)	Parameter changed	Notification	
65426 (0xFF92)	Parameter Restored	Notification	

DEUTSCH

SICK spezifisch							
Index dez (hex)	Name	Format (Offset)	Länge	Zugriff ¹	Standard Wert	Wertebereich	Bemerkung
212 (0xD4)	Timer 1 Modus	UInt	8 Bit	rw	0	0 = deaktiviert 1 = Einschaltverzögerung 2 = Ausschaltverzögerung 3 = Ein- / Ausschaltverzögerung 4 = Impuls (One Shot)	
213 (0xD5)	Timer 2 Modus	UInt	8 Bit	rw	0	0 = deaktiviert 1 = Einschaltverzögerung 2 = Ausschaltverzögerung 3 = Ein- / Ausschaltverzögerung 4 = Impuls (One Shot)	
214 (0xD6)	Zeitwert 1	UInt	16 Bit	rw	1	1...30000	[ms]
215 (0xD7)	Zeitwert 2	UInt	16 Bit	rw	1	1...30000	[ms]
216 (0xD8)	Logik 1	UInt	8 Bit	rw	0	0 = DIREKT 1 = AND 2 = OR 3 = Fenster-Modus 4 = Hysterese	
218 (0xDA)	Logik 2	UInt	8 Bit	rw	0	0 = DIREKT 1 = AND 2 = OR 3 = Fenster-Modus 4 = Hysterese	
226 (0xE2)	Systemstatus	Record	1 Byte	ro			

Standardkommando				
Index dez (hex)	Name	Zugriff ¹	Wert	Bemerkung
2 (0x02)	Standardkommando	wo	65 130	Einzelpunkt-Teach Auslieferungszustand wiederherstellen

Events			
Code dez (hex)	Name	Typ	Bemerkung
21520 (0x5410)	Kurzschluss an Ausgang	Warning	
25424 (0x6350)	Parameterwechsel	Notification	
65426 (0xFF92)	Parameter wiederhergestellt	Notification	

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