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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	5000 µs
Baudrate	COM2
Process Data Length	32 Bit

2. Process data

Record ² : 4 Byte																
Bitoffset																
Byte 0	Analog value	31	30	29	28	27	26	25	24							
Subindex	Integer 16															
Bitoffset																
Byte 1	Analog value	23	22	21	20	19	18	17	16							
Subindex	Integer 16															
Bitoffset																
Byte 2	Spare value	15	14	13	12	11	10	9	8							
Subindex	Unsigned Integer 7										BDC8	8				
Bitoffset																
Byte 3	BDC7	7	BDC6	6	BDC5	5	BDC4	4	BDC3	3	BDC2	2	QC2	1	QC1	0
Subindex	Boolean	8	Boolean	7	Boolean	6	Boolean	5	Boolean	4	Boolean	3	Boolean	2	Boolean	1

3. Service data

The following ISDUs will not be saved via Data-Storage: Data Storage Index, Teach-In Channel, Device / function name and Sender configuration

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			
12 (0x0C)	Device Access Locks	Record	2 Byte	rw			
1 (0x01)	Parameter (write) Access Lock	Bit (0)	1 Bit	ro			
2 (0x02)	Data Storage Lock	Bit (1)	1 Bit	ro			
3 (0x03)	Local Parameterization Lock	Bit (2)	1 Bit	ro			
4 (0x04)	Local User Interface Lock	Bit (3)	1 Bit	ro			
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 Tag	String	32 Byte	rw	*****		
40 (0x28)	Process Data Input	PD In	4 Byte	ro			

SICK device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark [Unit]
13 (0x0D)	Profile Characteristic	Array	10 Byte	ro		Unsigned Integer16 [5]	
14 (0x0E)	PDInput Descriptor	Array	6 Byte	ro		Octet String [2]	
15 (0x0F)	PDOutput Descriptor	Array	3 Byte	ro		Octet String [1]	

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

DEUTSCH

1. Physikalische Schicht

SIO Modus	ja
Min. Zykluszeit	5000 µs
Baudrate	COM2
Prozessdatenlänge	32 Bit

2. Prozessdaten

Record ² : 4 Byte																
Bitoffset																
Byte 0	Analog value	31	30	29	28	27	26	25	24							
Subindex	Integer 16															
Bitoffset																
Byte 1	Analog value	23	22	21	20	19	18	17	16							
Subindex	Integer 16															
Bitoffset																
Byte 2	Spare value	15	14	13	12	11	10	9	8							
Subindex	Unsigned Integer 7										BDC8	8				
											10	Boolean	9			
Bitoffset																
Byte 3	BDC7	7	BDC6	6	BDC5	5	BDC4	4	BDC3	3	BDC2	2	QC2	1	QC1	0
Subindex	Boolean	8	Boolean	7	Boolean	6	Boolean	5	Boolean	4	Boolean	3	Boolean	2	Boolean	1

3. Servicedaten

Die folgenden ISDUs werden nicht über Data-Storage gesichert: Datenspeicher Index, Teach-in-Kanal, Gerätenamen / -funktion und Einstellung Sender

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			
12 (0x0C)	Gerätezugriffssperren	Record	2 Byte	rw			
1 (0x01)	Parameter (Schreib-)Zugriffssperre	Bit (0)	1 Bit	ro			
2 (0x02)	Datenspeicherungs-sperre	Bit (1)	1 Bit	ro			
3 (0x03)	Lokale Parameterisie-rungssperre	Bit (2)	1 Bit	ro			
4 (0x04)	Lokale Benutzerinter-face-Sperre	Bit (3)	1 Bit	ro			
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)	Anwendungsspezifische Markierung	String	32 Byte	rw	*****		
40 (0x28)	Prozessdaten Eingang	PD In	4 Byte	ro			

SICK spezifisch							
Index dez (hex)	Name	Format (Offset)	Länge	Zugriff ¹	Standard Wert	Wertebereich	Bemerkung [Einheit]
13 (0x0D)	Profile Characteristic	Array	10 Byte	ro		Unsigned Integer16 [5]	
14 (0x0E)	PDInput Descriptor	Array	6 Byte	ro		Octet String [2]	
15 (0x0F)	PDOutput Descriptor	Array	3 Byte	ro		Octet String [1]	

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

ENGLISH

SICK device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark [Unit]
58 (0x3A)	Teach-In Channel	UInt	8 Bit	rw	0	0 = default BDC = BDC1 1 = BDC1 2 = BDC2 3 = BDC3 4 = BDC4 5 = BDC5 6 = BDC6 7 = BDC7 8 = BDC8	
59 (0x3B)	Teach-In State	Record	1 Byte	ro			
1 (0x01)	Teach state	Bit (0)	4 Bit	ro		0 = IDLE 1 = SP1 SUCCESS 2 = SP2 SUCCESS 5 = BUSY 7 = ERROR	
2 (0x02)	Teach flag SP1	Bit (4)	1 Bit	ro		true = Teachpoint 1 success- fully taught false = Teachpoint 1 not taught	
3 (0x03)	Teach flag SP2	Bit (6)	1 Bit	ro		true = Teachpoint 1 success- fully taught false = Teachpoint 1 not taught	
60 (0x3C)	BDC1 SP1 / SP2	Record	3 Byte	rw			
1 (0x01)	BDC1 SP1 Sensing Range	Bit (8)	16 Bit	ro		0...65535	[mm]
2 (0x02)	BDC1 SP2 Sensing Range	Bit (0)	8 Bit	ro		0 = SP2 not used	
61 (0x3D)	BDC1 configuration	Record	4 Byte	rw			
1 (0x01)	Logic	Bit (24)	8 Bit	ro	0	0 = not inverted 1 = inverted	
2 (0x02)	Mode	Bit (16)	8 Bit	ro		1 = Single point mode	
3 (0x03)	Hysteresis	Bit (0)	16 Bit	ro		0 = Vendor specific default	
62 (0x3E)	BDC 2 SP1 / SP2	Record	4 Byte	rw			
1 (0x01)	BDC2 SP1 Sensing Range	Bit (16)	16 Bit	ro		0...65535	[mm]
2 (0x02)	BDC2 SP2 Sensing Range	Bit (0)	16 Bit	ro		0...65535	[mm]
63 (0x3F)	BDC2 configuration	Record	4 Byte	rw			
1 (0x01)	Logic	Bit (24)	8 Bit	ro	0	0 = not inverted 1 = inverted	
2 (0x02)	Mode	Bit (16)	8 Bit	ro	1	1 = Single point mode 2 = Window mode 3 = Two point mode	
3 (0x03)	Hysteresis	Bit (0)	16 Bit	ro		0 = Vendor specific default	
64 (0x40)	Device / function name	String	32 Byte	rw	*****		
97 (0x61)	Sender configuration	UInt	8 Bit	rw	0	0 = Sender active 1 = Sender not active	
121 (0x79)	Pin 2 configuration	UInt	8 Bit	rw	16	0 = Deactivated 1 = External input 16 = Sender off 17 = Teach-in	
122 (0x7A)	Pin 5 configuration	UInt	8 Bit	rw	35	0 = Deactivated 34 = Switching signal Q02 35 = BDC2 output	
205 (0xCD)	SICK profile version	String	4 Byte	ro			
226 (0xE2)	System state	Record	2 Byte	ro			
1 (0x01)	Device state	Bit (8)	8 Bit	ro		0 = Init 1 = No Operate 2 = Operate 3 = Test 4 = Config./Commissioning	
2 (0x02)	BDC1 state	Bit (0)	1 Bit	ro		true = Object detected false = No object detected	
227 (0xE3)	Notification handling	Record	1 Byte	rw			
1 (0x01)	PD invalid flag trans- mission	Bit (1)	1 Bit	ro		true = Enabled false = Disabled	

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SICK spezifisch							
Index dez (hex)	Name	Format (Offset)	Länge	Zugriff ¹	Standard Wert	Wertebereich	Bemerkung [Einheit]
58 (0x3A)	Teach-in-Kanal	UInt	8 Bit	rw	0	0 = Standard-BDC = BDC1 1 = BDC1 2 = BDC2 3 = BDC3 4 = BDC4 5 = BDC5 6 = BDC6 7 = BDC7 8 = BDC8	
59 (0x3B)	Teach-in-Status	Record	1 Byte	ro			
1 (0x01)	Teach-Status	Bit (0)	4 Bit	ro		0 = Bereit 1 = SP1 erfolgreich 2 = SP2 erfolgreich 5 = In Arbeit 7 = Fehler	
2 (0x02)	Teach-Flag SP1	Bit (4)	1 Bit	ro		true = Teachpunkt 1 gesetzt false = Teachpunkt 1 nicht gesetzt	
3 (0x03)	Teach-Flag SP2	Bit (6)	1 Bit	ro		true = Teachpunkt 1 gesetzt false = Teachpunkt 1 nicht gesetzt	
60 (0x3C)	BDC1 SP1 / SP2	Record	3 Byte	rw			
1 (0x01)	BDC1 SP1 Schaltab- stand	Bit (8)	16 Bit	ro		0...65535	[mm]
2 (0x02)	BDC1 SP2 Schaltab- stand	Bit (0)	8 Bit	ro		0 = SP2 nicht genutzt	
61 (0x3D)	BDC1-Konfiguration	Record	4 Byte	rw			
1 (0x01)	Logik	Bit (24)	8 Bit	ro	0	0 = nicht invertiert 1 = invertiert	
2 (0x02)	Modus	Bit (16)	8 Bit	ro		1 = Single point mode	
3 (0x03)	Hysteresis	Bit (0)	16 Bit	ro		0 = Herstellerspezifischer Standard	
62 (0x3E)	BDC2 SP1 / SP2	Record	4 Byte	rw			
1 (0x01)	BDC2 SP1 Schaltab- stand	Bit (16)	16 Bit	ro		0...65535	[mm]
2 (0x02)	BDC2 SP2 Schaltab- stand	Bit (0)	16 Bit	ro		0...65535	[mm]
63 (0x3F)	BDC2-Konfiguration	Record	4 Byte	rw			
1 (0x01)	Logik	Bit (24)	8 Bit	ro	0	0 = nicht invertiert 1 = invertiert	
2 (0x02)	Modus	Bit (16)	8 Bit	ro	1	1 = Single point mode 2 = Window mode 3 = Two point mode	
3 (0x03)	Hysteresis	Bit (0)	16 Bit	ro		0 = Herstellerspezifischer Standard	
64 (0x40)	Gerätename /- funktion	String	32 Byte	rw	*****		
97 (0x61)	Einstellung Sender	UInt	8 Bit	rw	0	0 = Sender aktiv 1 = Sender nicht aktiv	
121 (0x79)	Pin-2-Konfiguration	UInt	8 Bit	rw	16	0 = Deaktiviert 1 = Externer Eingang 16 = Sender Aus 17 = Tech-in	
122 (0x7A)	Pin-5-Konfiguration	UInt	8 Bit	rw	35	0 = Deaktiviert 34 = Schaltsignal Q02 35 = BDC2 Ausgang	
205 (0xCD)	SICK profile version	String	4 Byte	ro			
226 (0xE2)	Systemstatus	Record	2 Byte	ro			
1 (0x01)	Gerätestatus	Bit (8)	8 Bit	ro		0 = Init 1 = No Operate 2 = Operate 3 = Test 4 = Config./Commissioning	
2 (0x02)	BDC1-Status	Bit (0)	1 Bit	ro		true = Objekt detektiert false = Kein Objekt detektiert	
227 (0xE3)	Benachrichtigungseinstel- lungen	Record	1 Byte	rw			
1 (0x01)	PD invalid Übertragung	Bit (1)	1 Bit	ro		true = Freigegeben false = Gesperrt	

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SICK device specific

Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark [Unit]
2 (0x02)	Event transmission	Bit (0)	1 Bit	ro	1	true = Enabled false = Disabled	
229 (0xE5)	Distance to object	Record	3 Byte	ro			
1 (0x01)	Distance	Bit (8)	16 Bit	ro		0...29999 30000 = distance over-run, no distance information	[mm]
2 (0x02)	Distance qualifier	Bit (0)	2 Bit	ro		0 = distance in range 1 = distance over-run 2 = distance under-run 3 = no distance information	
16384 (0x4000)	BDC 3 SP1 / SP2	Record	3 Byte	rw			
1 (0x01)	BDC3 SP1 Sensing Range	Bit (8)	16 Bit	ro		0...65535	[mm]
2 (0x02)	BDC3 SP2 Sensing Range	Bit (0)	8 Bit	ro		0 = SP2 not used	
16386 (0x4002)	BDC 4 SP1 / SP2	Record	3 Byte	rw			
1 (0x01)	BDC4 SP1 Sensing Range	Bit (8)	16 Bit	ro		0...65535	[mm]
2 (0x02)	BDC4 SP2 Sensing Range	Bit (0)	8 Bit	ro		0 = SP2 not used	
16388 (0x4004)	BDC 5 SP1 / SP2	Record	3 Byte	rw			
1 (0x01)	BDC5 SP1 Sensing Range	Bit (8)	16 Bit	ro		0...65535	[mm]
2 (0x02)	BDC5 SP2 Sensing Range	Bit (0)	8 Bit	ro		0 = SP2 not used	
16390 (0x4006)	BDC 6 SP1 / SP2	Record	3 Byte	rw			
1 (0x01)	BDC6 SP1 Sensing Range	Bit (8)	16 Bit	ro		0...65535	[mm]
2 (0x02)	BDC6 SP2 Sensing Range	Bit (0)	8 Bit	ro		0 = SP2 not used	
16392 (0x4008)	BDC 7 SP1 / SP2	Record	3 Byte	rw			
1 (0x01)	BDC7 SP1 Sensing Range	Bit (8)	16 Bit	ro		0...65535	[mm]
2 (0x02)	BDC7 SP2 Sensing Range	Bit (0)	8 Bit	ro		0 = SP2 not used	
16394 (0x400A)	BDC 8 SP1 / SP2	Record	3 Byte	rw			
1 (0x01)	BDC8 SP1 Sensing Range	Bit (8)	16 Bit	ro		0...65535	[mm]
2 (0x02)	BDC8 SP2 Sensing Range	Bit (0)	8 Bit	ro		0 = SP2 not used	

Standard command					
Index dec (hex)		Access ¹	Value		Remark [Unit]
2 (0x02)	Standard Command	wo	65	Single Value Teach SP1	
			66	Single Value Teach SP2	
			130	Restore Factory Settings	

DEUTSCH

SICK spezifisch

Index dez (hex)	Name	Format (Offset)	Länge	Zugriff ¹	Standard Wert	Wertebereich	Bemerkung [Einheit]
2 (0x02)	Event-Übertragung	Bit (0)	1 Bit	ro	1	true = Freigegeben false = Gesperrt	
229 (0xE5)	Distanz zum Objekt	Record	3 Byte	ro			
1 (0x01)	Distanz	Bit (8)	16 Bit	ro		0...29999 30000 = Distanz zu fern, kei- ne Distanzinformation	[mm]
2 (0x02)	Distanz Bewertung	Bit (0)	2 Bit	ro		0 = Distanz innerhalb gülti- gem Bereich 1 = Distanz zu fern 2 = Distanz zu nah 3 = Keine Distanzinformati- on	
16384 (0x4000)	BDC 3 SP1 / SP2	Record	3 Byte	rw			
1 (0x01)	BDC3 SP1 Schaltab- stand	Bit (8)	16 Bit	ro		0...65535	[mm]
2 (0x02)	BDC3 SP2 Schaltab- stand	Bit (0)	8 Bit	ro		0 = SP2 nicht genutzt	
16386 (0x4002)	BDC 4 SP1 / SP2	Record	3 Byte	rw			
1 (0x01)	BDC4 SP1 Schaltab- stand	Bit (8)	16 Bit	ro		0...65535	[mm]
2 (0x02)	BDC4 SP3 Schaltab- stand	Bit (0)	8 Bit	ro		0 = SP2 nicht genutzt	
16388 (0x4004)	BDC 5 SP1 / SP2	Record	3 Byte	rw			
1 (0x01)	BDC5 SP1 Schaltab- stand	Bit (8)	16 Bit	ro		0...65535	[mm]
2 (0x02)	BDC5 SP2 Schaltab- stand	Bit (0)	8 Bit	ro		0 = SP2 nicht genutzt	
16390 (0x4006)	BDC 6 SP1 / SP2	Record	3 Byte	rw			
1 (0x01)	BDC6 SP1 Schaltab- stand	Bit (8)	16 Bit	ro		0...65535	[mm]
2 (0x02)	BDC6 SP2 Schaltab- stand	Bit (0)	8 Bit	ro		0 = SP2 nicht genutzt	
16392 (0x4008)	BDC 7 SP1 / SP2	Record	3 Byte	rw			
1 (0x01)	BDC7 SP1 Schaltab- stand	Bit (8)	16 Bit	ro		0...65535	[mm]
2 (0x02)	BDC7 SP2 Schaltab- stand	Bit (0)	8 Bit	ro		0 = SP2 nicht genutzt	
16394 (0x400A)	BDC 8 SP1 / SP2	Record	3 Byte	rw			
1 (0x01)	BDC8 SP1 Schaltab- stand	Bit (8)	16 Bit	ro		0...65535	[mm]
2 (0x02)	BDC8 SP2 Schaltab- stand	Bit (0)	8 Bit	ro		0 = SP2 nicht genutzt	

Standardkommando					
Index dez (hex)		Zugriff ¹	Wert		Bemerkung [Einheit]
2 (0x02)	Standardkommando	wo	65	Einzelpunkt-Teach SP1	
			66	Einzelpunkt-Teach SP2	
			130	Auslieferungszustand wie- derherstellen	

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

SICK

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ENGLISH

Events			
Code dec (hex)	Name	Type	Remark [Unit]
16912 (0x4210)	Device temperature over-run	Warning	Clear source of heat
16928 (0x4220)	Device temperature under-run	Warning	Insulate device
36000 (0x8CA0)	Short circuit on Qx	Notification	Short circuit on outputs
36001 (0x8CA1)	New parameters	Notification	Parameters have been changed
36003 (0x8CA3)	Device is in mode Test	Warning	Device is in test mode
36005 (0x8CA5)	Teach / value out of specified range	Notification	Teach / distance value out of specified range (too far, too near, no signal)

DEUTSCH

Events			
Code dez (hex)	Name	Typ	Bemerkung [Einheit]
16912 (0x4210)	Zulässige Gerätetemperatur überschritten	Warning	Lokalisieren Sie die Wärmequelle
16928 (0x4220)	Zulässige Gerätetemperatur unterschritten	Warning	Isolieren Sie das Gerät
36000 (0x8CA0)	Kurzschluss Qx	Notification	Kurzschluss an Ausgang detektiert
36001 (0x8CA1)	Neue Parameter	Notification	Parameter wurden geändert
36003 (0x8CA3)	Geräte in Test-Modus	Warning	Gerät befindet sich im Testmodus
36005 (0x8CA5)	Teach / Wert außerhalb Wertebereich	Notification	Teach / Distanzwert außerhalb des spezifizierten Bereichs (zu nah, zu fern, kein Signal)

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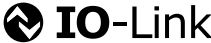
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