



8025191 0120

WTT12LC-Bxx6xS21

3037600794
9317756 0120

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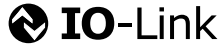
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Please note the validity of the additional operating instructions for automation functions

ENGLISH

1. Physical layer

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

SIO Modus	yes
Min Cycle Time	5.0 ms
Baudrate ²	COM2
Process Data Length (IN)	4 Byte
IODD version	V1.0
Valid for IO-Link version	1.1.0

2. Process data

Record: 4 Byte

Bitoffset																
Byte 0	Analog value															
Type/Subindex	Integer 16															
Bitoffset																
Byte 1	Analog value															
Type/Subindex	Integer 16															
Bitoffset																
Byte 2	Spare value												9		8	
Type/Subindex	Unsigned Integer 7										10		Boolean		9	
Bitoffset																
Byte 3	BDC7	7	BDC6	6	BDC5	5	BDC4	4	BDC3	3	BDC2	2	OC2	1	OO1	0
Type/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: 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	rw			
2 (0x02)	Data Storage Lock	Bit (1)	1 Bit	rw			
3 (0x03)	Local Parameterization Lock	Bit (2)	1 Bit	rw			
4 (0x04)	Local User Interface Lock	Bit (3)	1 Bit	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 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 Integer 16 [5]	
14 (0x0E)	PDInput Descriptor	Array	6 Byte	ro		Octet String [2]	
15 (0x0F)	PDOOutput Descriptor	Array	3 Byte	ro		Octet String [1]	

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

² COM values specify the bitrate (see IO-Link specification) / COM Werte spezifizieren die Baudrate (s. IO-Link Spezifikation): COM1 (4,8 kbit/s), COM2 (38,4 kbit/s), COM3 (230,4 kbit/s)

DEUTSCH

1. Physikalische Schicht

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

SIO Modus	ja
Min. Zykluszeit	5.0 ms
Baudrate ²	COM2
Prozessdatenlänge (IN)	4 Byte
IODD Version	V1.0
Gültig für IO-Link Version	1.1.0

2. Prozessdaten

Record: 4 Byte

Bitoffset																
Byte 0	Analog value															
Type/Subindex	Integer 16															
Bitoffset																
Byte 1	Analog value															
Type/Subindex	Integer 16															
Bitoffset																
Byte 2	Spare value												9		8	
Type/Subindex	Unsigned Integer 7										10		Boolean		9	
Bitoffset																
Byte 3	BDC7	7	BDC6	6	BDC5	5	BDC4	4	BDC3	3	BDC2	2	OC2	1	OO1	0
Type/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: Teach-in-Kanal, Geräte name / - 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	rw				
2 (0x02)	Datenspeicherungssperre	Bit (1)	1 Bit	rw				
3 (0x03)	Lokale Parameterisierungssperre	Bit (2)	1 Bit	rw				
4 (0x04)	Lokale Benutzerinterface-Sperre	Bit (3)	1 Bit	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)	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 Integer 16 [5]		
14 (0x0E)	PDInput Descriptor	Array	6 Byte	ro		Octet String [2]		
15 (0x0F)	PDOOutput Descriptor	Array	3 Byte	ro		Octet String [1]		

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Deutschland Phone +49 211 5361 301	Sri Lanka Phone +91 11 41 619 29 39
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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 successfully taught false = Teachpoint 1 not taught	
3 (0x03)	Teach flag SP2	Bit (6)	1 Bit	ro		true = Teachpoint 1 successfully 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	rw		0..65535	[mm]
2 (0x02)	BDC1 SP2 Sensing Range	Bit (0)	8 Bit	rw		0 = SP2 not used	
61 (0x3D)	BDC1 configuration	Record	4 Byte	rw			
1 (0x01)	Logic	Bit (24)	8 Bit	rw	0	0 = not inverted 1 = inverted	
2 (0x02)	Mode	Bit (16)	8 Bit	rw		1 = Single point mode	
3 (0x03)	Hysteresis	Bit (0)	16 Bit	rw		0 = Vendor specific default	
62 (0x3E)	BDC 2 SP1 / SP2	Record	4 Byte	rw			
1 (0x01)	BDC2 SP1 Sensing Range	Bit (16)	16 Bit	rw		0..65535	[mm]
2 (0x02)	BDC2 SP2 Sensing Range	Bit (0)	16 Bit	rw		0..65535	[mm]
63 (0x3F)	BDC2 configuration	Record	4 Byte	rw			
1 (0x01)	Logic	Bit (24)	8 Bit	rw	0	0 = not inverted 1 = inverted	
2 (0x02)	Mode	Bit (16)	8 Bit	rw	1	1 = Single point mode 2 = Window mode 3 = Two point mode	
3 (0x03)	Hysteresis	Bit (0)	16 Bit	rw		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 5 configuration	UInt	8 Bit	rw	16	0 = Deactivated 1 = External input 16 = Sender off 17 = Teach-in	
122 (0x7A)	Pin 2 configuration	UInt	8 Bit	rw	35	0 = Deactivated 34 = Switching signal Q02 35 = BDC2 output	

DEUTSCH							
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 Schaltabstand	Bit (8)	16 Bit	rw		0..65535	[mm]
2 (0x02)	BDC1 SP2 Schaltabstand	Bit (0)	8 Bit	rw		0 = SP2 nicht genutzt	
61 (0x3D)	BDC1-Konfiguration	Record	4 Byte	rw			
1 (0x01)	Logik	Bit (24)	8 Bit	rw	0	0 = nicht invertiert 1 = invertiert	
2 (0x02)	Modus	Bit (16)	8 Bit	rw		1 = Single point mode	
3 (0x03)	Hysteresis	Bit (0)	16 Bit	rw		0 = Herstellerspezifischer Standard	
62 (0x3E)	BDC2 SP1 / SP2	Record	4 Byte	rw			
1 (0x01)	BDC2 SP1 Schaltabstand	Bit (16)	16 Bit	rw		0..65535	[mm]
2 (0x02)	BDC2 SP2 Schaltabstand	Bit (0)	16 Bit	rw		0..65535	[mm]
63 (0x3F)	BDC2-Konfiguration	Record	4 Byte	rw			
1 (0x01)	Logik	Bit (24)	8 Bit	rw	0	0 = nicht invertiert 1 = invertiert	
2 (0x02)	Modus	Bit (16)	8 Bit	rw	1	1 = Single point mode 2 = Window mode 3 = Two point mode	
3 (0x03)	Hysteresis	Bit (0)	16 Bit	rw		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-5-Konfiguration	UInt	8 Bit	rw	16	0 = Deaktiviert 1 = Externer Eingang 16 = Sender Aus 17 = Tech-in	
122 (0x7A)	Pin-2-Konfiguration	UInt	8 Bit	rw	35	0 = Deaktiviert 34 = Schaltsignal Q02 35 = BDC2 Ausgang	

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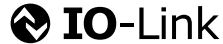
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SICK device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark [Unit]
205 (0xCD)	SICK profile version	String	4 Byte	ro			
226 (0xE2)	System state	Record	2 Byte	ro			
1 (0x01)	Device state	Bit (8)	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 transmission	Bit (1)	1 Bit	rw		true = Enabled false = Disabled	
2 (0x02)	Event transmission	Bit (0)	1 Bit	rw	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	rw		0...65535	[mm]
2 (0x02)	BDC3 SP2 Sensing Range	Bit (0)	8 Bit	rw		0 = SP2 not used	
16386 (0x4002)	BDC 4 SP1 / SP2	Record	3 Byte	rw			
1 (0x01)	BDC4 SP1 Sensing Range	Bit (8)	16 Bit	rw		0...65535	[mm]
2 (0x02)	BDC4 SP2 Sensing Range	Bit (0)	8 Bit	rw		0 = SP2 not used	
16388 (0x4004)	BDC 5 SP1 / SP2	Record	3 Byte	rw			
1 (0x01)	BDC5 SP1 Sensing Range	Bit (8)	16 Bit	rw		0...65535	[mm]
2 (0x02)	BDC5 SP2 Sensing Range	Bit (0)	8 Bit	rw		0 = SP2 not used	
16390 (0x4006)	BDC 6 SP1 / SP2	Record	3 Byte	rw			
1 (0x01)	BDC6 SP1 Sensing Range	Bit (8)	16 Bit	rw		0...65535	[mm]
2 (0x02)	BDC6 SP2 Sensing Range	Bit (0)	8 Bit	rw		0 = SP2 not used	
16392 (0x4008)	BDC 7 SP1 / SP2	Record	3 Byte	rw			
1 (0x01)	BDC7 SP1 Sensing Range	Bit (8)	16 Bit	rw		0...65535	[mm]
2 (0x02)	BDC7 SP2 Sensing Range	Bit (0)	8 Bit	rw		0 = SP2 not used	
16394 (0x400A)	BDC 8 SP1 / SP2	Record	3 Byte	rw			
1 (0x01)	BDC8 SP1 Sensing Range	Bit (8)	16 Bit	rw		0...65535	[mm]

DEUTSCH									
SICK spezifisch									
Index dez (hex)	Name	Format (Offset)	Länge	Zugriff ¹	Standard Wert	Wertebereich	Bemerkung [Einheit]		
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)	Benachrichtigungseinstellungen	Record	1 Byte	rw					
1 (0x01)	PD invalid Übertragung	Bit (1)	1 Bit	rw		true = Freigegeben false = Gesperrt			
2 (0x02)	Event-Übertragung	Bit (0)	1 Bit	rw	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, keine Distanzinformation	[mm]		
2 (0x02)	Distanz Bewertung	Bit (0)	2 Bit	ro		0 = Distanz innerhalb gültigem Bereich 1 = Distanz zu fern 2 = Distanz zu nah 3 = Keine Distanzinformation			
16384 (0x4000)	BDC 3 SP1 / SP2	Record	3 Byte	rw					
1 (0x01)	BDC3 SP1 Schaltabstand	Bit (8)	16 Bit	rw		0...65535	[mm]		
2 (0x02)	BDC3 SP2 Schaltabstand	Bit (0)	8 Bit	rw		0 = SP2 nicht genutzt			
16386 (0x4002)	BDC 4 SP1 / SP2	Record	3 Byte	rw					
1 (0x01)	BDC4 SP1 Schaltabstand	Bit (8)	16 Bit	rw		0...65535	[mm]		
2 (0x02)	BDC4 SP3 Schaltabstand	Bit (0)	8 Bit	rw		0 = SP2 nicht genutzt			
16388 (0x4004)	BDC 5 SP1 / SP2	Record	3 Byte	rw					
1 (0x01)	BDC5 SP1 Schaltabstand	Bit (8)	16 Bit	rw		0...65535	[mm]		
2 (0x02)	BDC5 SP2 Schaltabstand	Bit (0)	8 Bit	rw		0 = SP2 nicht genutzt			
16390 (0x4006)	BDC 6 SP1 / SP2	Record	3 Byte	rw					
1 (0x01)	BDC6 SP1 Schaltabstand	Bit (8)	16 Bit	rw		0...65535	[mm]		
2 (0x02)	BDC6 SP2 Schaltabstand	Bit (0)	8 Bit	rw		0 = SP2 nicht genutzt			
16392 (0x4008)	BDC 7 SP1 / SP2	Record	3 Byte	rw					
1 (0x01)	BDC7 SP1 Schaltabstand	Bit (8)	16 Bit	rw		0...65535	[mm]		
2 (0x02)	BDC7 SP2 Schaltabstand	Bit (0)	8 Bit	rw		0 = SP2 nicht genutzt			
16394 (0x400A)	BDC 8 SP1 / SP2	Record	3 Byte	rw					
1 (0x01)	BDC8 SP1 Schaltabstand	Bit (8)	16 Bit	rw		0...65535	[mm]		

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

²COM values specify the bitrate (see IO-Link specification) / COM Werte spezifizieren die Baudrate (s. IO-Link Spezifikation): COM1 (4,8 kbit/s), COM2 (38,4 kbit/s), COM3 (230,4 kbit/s)



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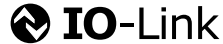
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Please note the validity of the additional operating instructions for automation functions

ENGLISH							
SICK device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark [Unit]
2 (0x02)	BDC8 SP2 Sensing Range	Bit (0)	8 Bit	rw		0 = SP2 not used	
Standard command							
Index dec (hex)		Access ¹	Value	Name	Remark [Unit]		
2 (0x02)	Standard Command	wo	65	Single Value Teach SP1			
			66	Single Value Teach SP2			
			130	Restore Factory Settings			
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							
SICK spezifisch							
Index dez (hex)	Name	Format (Offset)	Länge	Zugriff ¹	Standard Wert	Wertebereich	Bemerkung [Einheit]
2 (0x02)	BDC8 SP2 Schaltabstand	Bit (0)	8 Bit	rw		0 = SP2 nicht genutzt	
Standardkommando							
Index dez (hex)		Zugriff ¹	Wert	Name	Bemerkung [Einheit]		
2 (0x02)	Standardkommando	wo	65	Einzelpunkt-Teach SP1			
			66	Einzelpunkt-Teach SP2			
			130	Auslieferungszustand wiederherstellen			
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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² COM values specify the bitrate (see IO-Link specification) / COM Werte spezifizieren die Baudrate (s. IO-Link Spezifikation): COM1 (4,8 kbit/s), COM2 (38,4 kbit/s), COM3 (230,4 kbit/s)