

# SICK

8017189 1114

## LUTM

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9207324 YGT2

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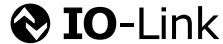
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Please note the validity of the additional operating instructions for automation functions

### ENGLISH

#### 1. Physical layer

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

#### 2. Process data

Record<sup>2</sup>: 2 Byte

Condition: ISDU: Configuration process data content, Index: 120, Subindex: 0, Value: 0

Bitoffset	15	14	13	12	11	10	9	8
Byte 0								
Subindex								
Bitoffset					3	2	1	0
Byte 1	7	6	5	4	Teach Busy	Teach Successful	Quality of Run Al	Switching Output
Subindex					Boolean 4	Boolean 3	Boolean 2	Boolean 1

Record<sup>2</sup>: 2 Byte

Condition: ISDU: Configuration process data content, Index: 120, Subindex: 0, Value: 16

Bitoffset	15	14	13	12	11	10	9	8
Byte 0	Measurement Value							
Subindex	Unsigned Integer 10							
Bitoffset					3	2	1	0
Byte 1	7	6	5	4	Teach Busy	Teach Successful	Quality of Run Al	Switching Output
Subindex	Unsigned Integer 10				Boolean 4	Boolean 3	Boolean 2	Boolean 1

#### 3. Service data

The following ISDUs will not be saved via Data-Storage: Direct Parameters 1, Direct Parameters 2, Device Access Locks, Device Specific Name and Find Me

IO-Link specific							
Index dec (hex)	Name	Format (Offset)	Length	Access <sup>1</sup>	Default Value	Value / Range	Remark [Unit]
0 (0x00)	Direct Parameters 1	Record	16 Byte	rw		see IO-Link Interface Specification	
1 (0x01)	Direct Parameters 2	Record	16 Byte	rw		see IO-Link Interface Specification	
12 (0x0C)	Device Access Locks	Record	2 Byte	rw			
2 (0x02)	Data Storage Lock	Bit (1)	1 Bit	ro			
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			
20 (0x14)	Product Text	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 Tag	String	32 Byte	rw			
36 (0x24)	Device Status	UInt	8 Bit	ro		0 = Device is OK 1 = Maintenance required 2 = Out of specification 3 = Functional check 4 = Failure 5...255 = Reserved	Function not available
40 (0x28)	Process Data Input	PD In	2 Byte	ro			

SICK device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access <sup>1</sup>	Default Value	Value / Range	Remark [Unit]
13 (0x0D)	Profile Characteristic	Record	14 Byte	ro		see IO-Link Interface Specification	
1 (0x01)	Smart Sensor Profile	Bit (96)	16 Bit	ro	1		
2 (0x02)	Identification	Bit (80)	16 Bit	ro	32768		
3 (0x03)	BDC Binary Data Channel	Bit (64)	16 Bit	ro	32769		
4 (0x04)	BDC Binary Data Channel	Bit (48)	16 Bit	ro	32769		

<sup>1</sup>ro = 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	16 Bit

#### 2. Prozessdaten

Record<sup>2</sup>: 2 Byte

Condition: ISDU: Konfiguration Prozessdaten Inhalt, Index: 120, Subindex: 0, Value: 0

Bitoffset	15	14	13	12	11	10	9	8
Byte 0								
Subindex								
Bitoffset					3	2	1	0
Byte 1	7	6	5	4	Teach wird durch	Teach erfolgreich	Alarm Prozess	Schaltausgang C
Subindex					Boolean 4	Boolean 3	Boolean 2	Boolean 1

Record<sup>2</sup>: 2 Byte

Condition: ISDU: Konfiguration Prozessdaten Inhalt, Index: 120, Subindex: 0, Value: 16

Bitoffset	15	14	13	12	11	10	9	8
Byte 0	Messwert							
Subindex	Unsigned Integer 10							
Bitoffset					3	2	1	0
Byte 1	7	6	5	4	Teach wird durch	Teach erfolgreich	Alarm Prozess	Schaltausgang C
Subindex	Unsigned Integer 10				Boolean 4	Boolean 3	Boolean 2	Boolean 1

#### 3. Servicedaten

Die folgenden ISDUs werden nicht über Data-Storage gesichert: Direkte Parameter 1, Direkte Parameter 2, Gerätezugriffssperren, Gerätespezifischer Tag und Find Mich

IO-Link spezifisch							
Index dez (hex)	Name	Format (Offset)	Länge	Zugriff <sup>1</sup>	Standard Wert	Wertebereich	Bemerkung [Einheit]
0 (0x00)	Direkte Parameter 1	Record	16 Byte	rw		siehe IO-Link Interface Specification	
1 (0x01)	Direkte Parameter 2	Record	16 Byte	rw		siehe IO-Link Interface Specification	
12 (0x0C)	Gerätezugriffssperren	Record	2 Byte	rw			
2 (0x02)	Datenspeicherungs-sperre	Bit (1)	1 Bit	ro			
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			
20 (0x14)	Produkttext	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)	Anwendungsspezifische Markierung	String	32 Byte	rw			
36 (0x24)	Gerätestatus	UInt	8 Bit	ro		0 = Gerät ist OK 1 = Wartung erforderlich 2 = Außerhalb der Spezifikation 3 = Funktionsprüfung 4 = Fehler 5...255 = Reserviert	Funktion nicht verfügbar
40 (0x28)	Prozessdaten Eingang	PD In	2 Byte	ro			

SICK spezifisch							
Index dez (hex)	Name	Format (Offset)	Länge	Zugriff <sup>1</sup>	Standard Wert	Wertebereich	Bemerkung [Einheit]
13 (0x0D)	Profil Charakteristik	Record	14 Byte	ro		siehe IO-Link Interface Specification	
1 (0x01)	Smart Sensor Profil	Bit (96)	16 Bit	ro	1		
2 (0x02)	Identifikation	Bit (80)	16 Bit	ro	32768		
3 (0x03)	Binärer Daten Kanal	Bit (64)	16 Bit	ro	32769		
4 (0x04)	Binärer Daten Kanal	Bit (48)	16 Bit	ro	32769		
5 (0x05)	Prozess Datum	Bit (32)	16 Bit	ro	32770		



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Rusia Phone +7 495 775 09 30  
Schweiz Phone +41 41 619 29 39  
Singapore Phone +65 6744 3732  
Sveitsland Phone +386 (0)1 47 69 990  
South Africa Phone +27 11 472 3733  
South Korea Phone +82 2 786 6321/4  
Spanyol Phone +358 9 25 15 800  
Sverige Phone +46 10 110 10 00  
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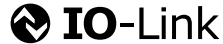
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Please note the validity of the additional operating instructions for automation functions

ENGLISH							
SICK device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access <sup>1</sup>	Default Value	Value / Range	Remark [Unit]
4 (0x04)	BDC Binary Data Channel	Bit (48)	16 Bit	ro	32769		
5 (0x05)	PDV Process Data Variable	Bit (32)	16 Bit	ro	32770		
6 (0x06)	Diagnosis	Bit (16)	16 Bit	ro	32771		
7 (0x07)	Teach In	Bit (0)	16 Bit	ro	32772		
14 (0x0E)	PD Input Descriptor	Record	15 Byte	ro		see IO-Link Interface Specification	
58 (0x3A)	Teach-In Channel	UInt	8 Bit	rw	0	0 = Default BDC 1 = Address of BDC1 (Q1)	see IO-Link Smart Sensor Profile. No change in device functionality possible.
59 (0x3B)	Teach-In State	UInt	8 Bit	ro			see IO-Link Smart Sensor Profile
60 (0x3C)	Setpoint BDC1	Record	2 Byte	rw		see IO-Link Smart Sensor Profile	
1 (0x01)	Setpoint SP1 in % between mark and background	Bit (8)	8 Bit	ro	50	5 = 5 10 = 10 15 = 15 20 = 20 25 = 25 30 = 30 35 = 35 40 = 40 45 = 45 50 = 50 55 = 55 60 = 60 65 = 65 70 = 70 75 = 75 80 = 80 85 = 85 90 = 90 95 = 95	
2 (0x02)	Setpoint SP2 not used	Bit (0)	8 Bit	ro		0...255	not used
61 (0x3D)	Switchpoint BDC1	Record	4 Byte	rw		see IO-Link Smart Sensor Profile	
1 (0x01)	Switchpoint Logic	Bit (24)	8 Bit	ro	128	0 = not inverted value 1 = inverted value 128 = determined by teach (switch on mark)	
2 (0x02)	Switchpoint Mode	Bit (16)	8 Bit	ro	1	0 = deactivated 1 = single point mode	
3 (0x03)	Switchpoint Hysteresis	Bit (0)	16 Bit	ro	0	0 = vendor specific default	not used
64 (0x40)	Device Specific Name	String	32 Byte	rw			Device Specific Tag
80 (0x50)	Output inversion	Int	8 Bit	ro	0	0 = not inverted (dark-switching) 1 = inverted (light-switching)	Contains the option to set the output logic. It is possible to differ between light-switching and dark-switching.
81 (0x51)	Key lock	UInt	8 Bit	rw	0	0 = Key lock inactive 1 = Key lock active	Key lock adjustment
120 (0x78)	Configuration process data content	UInt	8 Bit	rw	0	0 = Switching Output Q + Quality of Run Alarm 16 = Measurement Value + Switching Output Q + Quality of Run Alarm	Adjustment of Process data

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

DEUTSCH							
SICK spezifisch							
Index dez (hex)	Name	Format (Offset)	Länge	Zugriff <sup>1</sup>	Standard Wert	Wertebereich	Bemerkung [Einheit]
6 (0x06)	Diagnose	Bit (16)	16 Bit	ro	32771		
7 (0x07)	Teach In	Bit (0)	16 Bit	ro	32772		
14 (0x0E)	PD Eingang Beschreibung	Record	15 Byte	ro		siehe IO-Link Interface Specification	
58 (0x3A)	Einlernkanal	UInt	8 Bit	rw	0	0 = Standard BDC 1 = Adresse von BDC1	siehe IO-Link Smart Sensor Profile. Keine Änderung der Gerätefunktion möglich.
59 (0x3B)	Einlernstatus	UInt	8 Bit	ro			siehe IO-Link Smart Sensor Profile
60 (0x3C)	Sollwert BDC1	Record	2 Byte	rw		siehe IO-Link Smart Sensor Profile	
1 (0x01)	Sollwert SP1 in % zwischen Marke und Hintergrund	Bit (8)	8 Bit	ro	50	5 = 5 10 = 10 15 = 15 20 = 20 25 = 25 30 = 30 35 = 35 40 = 40 45 = 45 50 = 50 55 = 55 60 = 60 65 = 65 70 = 70 75 = 75 80 = 80 85 = 85 90 = 90 95 = 95	
2 (0x02)	Sollwert SP2 nicht verwendet	Bit (0)	8 Bit	ro		0...255	nicht verwendet
61 (0x3D)	Schaltpunkt BDC1	Record	4 Byte	rw		siehe IO-Link Smart Sensor Profile	
1 (0x01)	Schaltpunkt Logik	Bit (24)	8 Bit	ro	128	0 = nicht invertierter Wert 1 = invertierter Wert 128 = durch Einlernvorgang festgelegt (dunkelschaltend)	
2 (0x02)	Schaltpunkt Modus	Bit (16)	8 Bit	ro	1	0 = deaktiviert 1 = Einzelmodus	
3 (0x03)	Schaltpunkt Hysteresis	Bit (0)	16 Bit	ro	0	0 = Lieferantenspezifische Grundeinstellung	nicht verwendet
64 (0x40)	Gerätespezifischer Tag	String	32 Byte	rw			Gerätespezifischer Tag
80 (0x50)	Invertierung des Schaltausgangs	Int	8 Bit	ro	0	0 = nicht invertiert (dunkelschaltend) 1 = invertiert (hellschaltend)	Umschaltung des Schaltausgang von hell- und dunkelschaltend.
81 (0x51)	Tastensperre	UInt	8 Bit	rw	0	0 = Tastensperre inaktiv 1 = Tastensperre aktiv	Einstellung der Tastensperre
120 (0x78)	Konfiguration Prozessdaten Inhalt	UInt	8 Bit	rw	0	0 = Schaltausgang Q 16 = Messwert + Schaltausgang Q	Einstellung der Prozessdaten
121 (0x79)	Pin 2 Konfiguration	UInt	8 Bit	rw	1	0 = AUS = Hochohmig 1 = Digitaler Q Schaltausgang 3 = Ausgang Alarm Prozessqualität unterschritten 16 = Externer Teach Eingang	
204 (0xCC)	Find Mich	UInt	8 Bit	rw	0	0 = Find Mich deaktiviert 1 = Find Mich aktiviert, gelbe LED blinkt mit 1 Hz 16 = Find Mich aktiviert, gelbe LED blinkt, zusätzlich blinkt der Schaltausgang Q mit 1 Hz	Find Mich



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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 <sup>1</sup>	Default Value	Value / Range	Remark [Unit]
121 (0x79)	Pin 2 Configuration	UInt	8 Bit	rw	1	0 = OFF = high impedance 1 = digital Q-Output 3 = Quality of Run Alarm Output 16 = External Teach Input	
204 (0xCC)	Find Me	UInt	8 Bit	rw	0	0 = Find Me deactivated 1 = Find Me activated, yellow LED is blinking with 1 Hz 16 = Find Me activated; yellow LED is blinking and output Q is toggling with 1 Hz	Find Me
205 (0xCD)	Sick Profile Version	String	4 Byte	ro	0.02		Sick Profile Version
212 (0xD4)	Delay Mode Q	UInt	8 Bit	rw	1	1 = Off Delay	see SICK IO-Link Profile
214 (0xD6)	Delay Time Q	UInt	16 Bit	rw		0 = 0 ms 8 = 8 ms 16 = 16 ms 32 = 32 ms 65 = 65 ms 130 = 130 ms 260 = 260 ms 520 = 520 ms	see SICK IO-Link Profile
222 (0xDE)	Job assurance	OStr	7 Byte	rw			Record of data describing the job. Only mapped in PLC function block not in the user interface.
224 (0xE0)	Quality of teach	UInt	8 Bit	ro		0...100 = Quality score after teach in %	Quality score after teach.
225 (0xE1)	Quality of run	UInt	8 Bit	ro		0...100 = Quality score during operation in %	Contains the quality score during operation.
226 (0xE2)	Threshold quality of run alarm	UInt	8 Bit	rw		0...100 = Threshold for Quality Score during Operation Alarm	Threshold for Quality Score during Operation Alarm
Standard command							
Index dec (hex)		Access <sup>1</sup>			Value		Remark [Unit]
2 (0x02)	Standard Command	wo			67	Teach Mark (2-Point)	
					68	Teach Background (2-Point)	
					71	Dynamic Teach Start	
					72	Dynamic Teach End	
					79	Abort Teach In Sequence	
					130	Restore Factory Settings	

DEUTSCH							
SICK spezifisch							
Index dez (hex)	Name	Format (Offset)	Länge	Zugriff <sup>1</sup>	Standard Wert	Wertebereich	Bemerkung [Einheit]
205 (0xCD)	Sick Profile Version	String	4 Byte	ro	0.02		Sick Profile Version
212 (0xD4)	Verzögerungsmodus Q1	UInt	8 Bit	rw	1	1 = Ausschaltverzögerung	siehe SICK IO-Link Profile
214 (0xD6)	Verzögerungszeit Q1	UInt	16 Bit	rw		0 = 0 ms 8 = 8 ms 16 = 16 ms 32 = 32 ms 65 = 65 ms 130 = 130 ms 260 = 260 ms 520 = 520 ms	siehe SICK IO-Link Profile
222 (0xDE)	Jobsicherung	OStr	7 Byte	rw			Datensatz der den Job beschreibt. Nur abgebildet im SPS Funktionsblock, nicht im User Interface.
224 (0xE0)	Teachqualität	UInt	8 Bit	ro		0...100 = Qualität des aktuellen Teachs in %	Qualität des aktuellen Teachs
225 (0xE1)	Prozessqualität	UInt	8 Bit	ro		0...100 = Prozessqualität während des Betriebs in %	Zeigt die Prozessqualität während des Betriebs
226 (0xE2)	Schaltschwelle für Alarm der Prozessqualität	UInt	8 Bit	rw		0...100 = Schaltschwelle für Alarm der Prozessqualität	Schaltschwelle für Alarm der Prozessqualität
Standardkommando							
Index dez (hex)		Zugriff <sup>1</sup>			Wert		Bemerkung [Einheit]
2 (0x02)	Standardkommando	wo			67	Einlernen der Marke (2-Punkt)	
					68	Einlernen des Hintergrunds (2-Punkt)	
					71	Dynamisches Einlernen starten	
					72	Dynamisches Einlernen beenden	
					79	Abbrechen der Einlernsequenz	
					130	Auslieferungszustand wiederherstellen	

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

# SICK

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## LUTM

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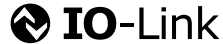
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Please note the validity of the additional operating instructions for automation functions

ENGLISH			
Events			
Code dec (hex)	Name	Type	Remark (Unit)
6144 (0x1800)	Teach error	Warning	Teach error occurred
6145 (0x1801)	Teach successful	Notification	Teach successful
6146 (0x1802)	Quality of run alarm	Notification	Quality of run alarm
6146 (0x1802)	Quality of run alarm	Notification	Quality of run alarm
6147 (0x1803)	Communication Error	Error	Communication Error

DEUTSCH			
Events			
Code dez (hex)	Name	Typ	Bemerkung (Einheit)
6144 (0x1800)	Teachfehler	Warning	Teachfehler aufgetreten
6145 (0x1801)	Teach erfolgreich	Notification	Teach erfolgreich
6146 (0x1802)	Alarm Prozessqualität unterschritten	Notification	Alarm Prozessqualität unterschritten
6146 (0x1802)	Alarm Prozessqualität unterschritten	Notification	Alarm Prozessqualität unterschritten
6147 (0x1803)	Kommunikationsfehler	Error	Kommunikationsfehler