



8016778 ZKH3

DT50-2 Pro

8388686

428666894

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

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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	400 µs
Baudrate ²	COM3
Process Data Length	16 Bit

2. Process data

PD_ProcessData1

Record: 2 Byte - Process data in

Condition: ISDU: Process data structure, Index: 120, Subindex: 0, Value: 0

Bitoffset																
Byte 0	Distance	15	14	13	12	11	10	9	8							
Type/Subindex	Unsigned Integer 14															
Bitoffset																
Byte 1	Distance	7	6	5	4	3	2	1	0	Status Q1	1	Status Q2	0			
Type/Subindex	Unsigned Integer 14											3	Boolean	2	Boolean	1

PD_ProcessData2

Record: 2 Byte - Process data in2

Condition: ISDU: Process data structure, Index: 120, Subindex: 0, Value: 1

Bitoffset																
Byte 0	Distance	15	14	13	12	11	10	9	8							
Type/Subindex	Unsigned Integer 14															
Bitoffset																
Byte 1	Distance	7	6	5	4	3	2	1	0	Status SLW1 (Signal level warning 1)	1	Status Alarm	0			
Type/Subindex	Unsigned Integer 14											3	Boolean	2	Boolean	1

PD_ProcessData3

Record: 2 Byte - Process data in

Condition: ISDU: Process data structure, Index: 120, Subindex: 0, Value: 2

Bitoffset																
Byte 0	Signal Level	15	14	13	12	11	10	9	8							
Type/Subindex	Unsigned Integer 14															
Bitoffset																
Byte 1	Signal Level	7	6	5	4	3	2	1	0	Status SLW1 (Signal level warning 1)	1	Status Alarm	0			
Type/Subindex	Unsigned Integer 14											3	Boolean	2	Boolean	1

PD_ProcessData4

Record: 2 Byte - Process Data In

Condition: ISDU: Process data structure, Index: 120, Subindex: 0, Value: 3

Bitoffset															
Byte 0	Distance	15	14	13	12	11	10	9	8						
Type/Subindex	Unsigned Integer 16														
Bitoffset															
Byte 1	Distance	7	6	5	4	3	2	1	0						
Type/Subindex	Unsigned Integer 16														

PD_ProcessData5

Record: 2 Byte - Process Data In

Condition: ISDU: Process data structure, Index: 120, Subindex: 0, Value: 4

Bitoffset																
Byte 0	Distance	15	14	13	12	11	10	9	8							
Type/Subindex	Unsigned Integer 14															
Bitoffset																
Byte 1	Distance	7	6	5	4	3	2	1	0	Signal Quality	1					
Type/Subindex	Unsigned Integer 14											2	Unsigned Integer 2			

DEUTSCH

1. Physikalische Schicht

SIO Modus	ja
Min. Zykluszeit	400 µs
Baudrate ²	COM3
Prozessdatenlänge	16 Bit

2. Prozessdaten

PD_ProcessData1

Record: 2 Byte - Process data in

Condition: ISDU: IO-Link Prozessdaten, Index: 120, Subindex: 0, Value: 0

Bitoffset																
Byte 0	Distanz	15	14	13	12	11	10	9	8							
Type/Subindex	Unsigned Integer 14															
Bitoffset																
Byte 1	Distanz	7	6	5	4	3	2	1	0	Status Q1	1	Status Q2	0			
Type/Subindex	Unsigned Integer 14											3	Boolean	2	Boolean	1

PD_ProcessData2

Record: 2 Byte - Process data in2

Condition: ISDU: IO-Link Prozessdaten, Index: 120, Subindex: 0, Value: 1

Bitoffset																
Byte 0	Distanz	15	14	13	12	11	10	9	8							
Type/Subindex	Unsigned Integer 14															
Bitoffset																
Byte 1	Distanz	7	6	5	4	3	2	1	0	Status SLW1 (Signalpegelwarnung 1)	1	Status Alarm	0			
Type/Subindex	Unsigned Integer 14											3	Boolean	2	Boolean	1

PD_ProcessData3

Record: 2 Byte - Process data in

Condition: ISDU: IO-Link Prozessdaten, Index: 120, Subindex: 0, Value: 2

Bitoffset																
Byte 0	Signalpegel	15	14	13	12	11	10	9	8							
Type/Subindex	Unsigned Integer 14															
Bitoffset																
Byte 1	Signalpegel	7	6	5	4	3	2	1	0	Status SLW1 (Signalpegelwarnung 1)	1	Status Alarm	0			
Type/Subindex	Unsigned Integer 14											3	Boolean	2	Boolean	1

PD_ProcessData4

Record: 2 Byte - Process Data In

Condition: ISDU: IO-Link Prozessdaten, Index: 120, Subindex: 0, Value: 3

Bitoffset															
Byte 0	Distanz	15	14	13	12	11	10	9	8						
Type/Subindex	Unsigned Integer 16														
Bitoffset															
Byte 1	Distanz	7	6	5	4	3	2	1	0						
Type/Subindex	Unsigned Integer 16														

PD_ProcessData5

Record: 2 Byte - Process Data In

Condition: ISDU: IO-Link Prozessdaten, Index: 120, Subindex: 0, Value: 4

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

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)

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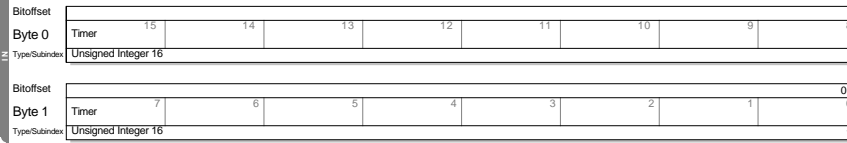
Please note the validity of the additional operating instructions for automation functions

ENGLISH

PD_ProcessData6

Record: 2 Byte - Process Data In

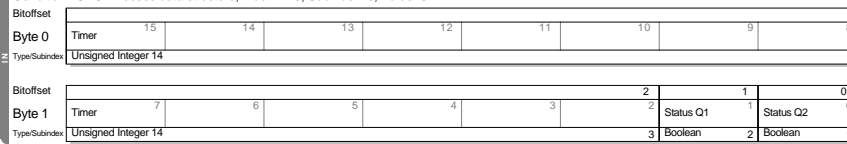
Condition: ISDU: Process data structure, Index: 120, Subindex: 0, Value: 5



PD_ProcessData7

Record: 2 Byte - Process Data In

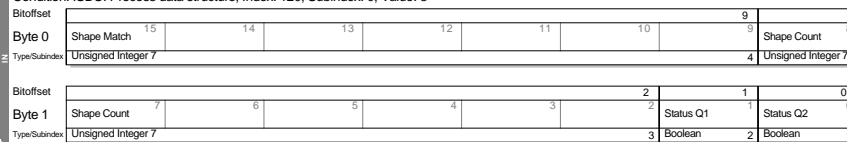
Condition: ISDU: Process data structure, Index: 120, Subindex: 0, Value: 6



PD_ProcessData8

Record: 2 Byte - Process Data In

Condition: ISDU: Process data structure, Index: 120, Subindex: 0, Value: 8



3. Service data

The following ISDUs will not be saved via Data-Storage: Q1 center, Q2 center, Qa center, Speed / Response time, Shape trigger threshold, Length of reference object, Shape tolerance Q1, Shape tolerance Q2, Shape tolerance Qa good, Shape tolerance Qa bad and Find me

IO-Link specific							
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark [Unit]
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	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	7 Byte	ro			
21 (0x15)	Serial Number	String	16 Byte	ro			
22 (0x16)	Hardware Version	String	8 Byte	ro			
23 (0x17)	Firmware Version	String	12 Byte	ro			
24 (0x18)	Application Specific Tag	String	32 Byte	rw			
40 (0x28)	Process Data Input	PD In	2 Byte	ro			

SICK device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark [Unit]
60 (0x3C)	Q1 switching points	Record	4 Byte	rw			Dependent on Index 61 Sub 2
1 (0x01)	Far	Bit (16)	16 Bit	rw	30000	200...30000	[mm]
2 (0x02)	Near	Bit (0)	16 Bit	rw		200...30000	[mm]

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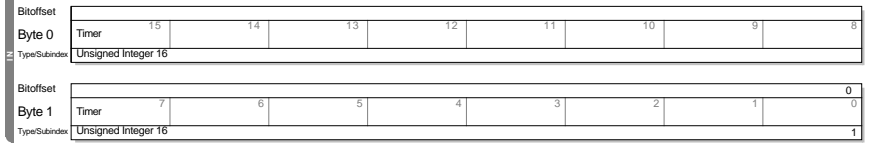
² COM values specify the bitrate (see IO-Link specification) / COM Werte spezifizieren die Baudrate (s. IO-Link Spezifikation): COM1 (4,8 kbit/s), COM2 (38,4 kbit/s), COM3 (230,4 kbit/s)

DEUTSCH

PD_ProcessData6

Record: 2 Byte - Process Data In

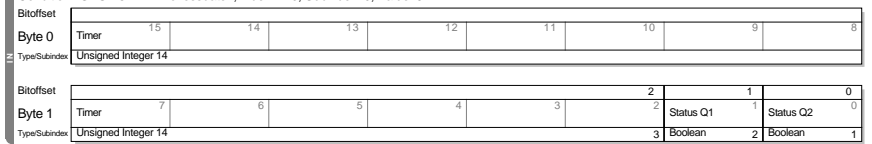
Condition: ISDU: IO-Link Prozessdaten, Index: 120, Subindex: 0, Value: 5



PD_ProcessData7

Record: 2 Byte - Process Data In

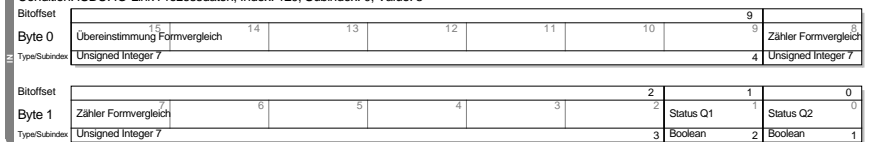
Condition: ISDU: IO-Link Prozessdaten, Index: 120, Subindex: 0, Value: 6



PD_ProcessData8

Record: 2 Byte - Process Data In

Condition: ISDU: IO-Link Prozessdaten, Index: 120, Subindex: 0, Value: 8



3. Servicedaten

Die folgenden ISDUs werden nicht über Data-Storage gesichert: Q1 Mitte Schaltfenster, Q2 Mitte Schaltfenster, Qa Mitte Analogausgang, Geschwindigkeit / Ansprechzeit, Form Trigger-Schwelle, Länge des Referenzobjektes, Form-Toleranz Q1, Form-Toleranz Q2, Form-Toleranz Qa gut, Form-Toleranz Qa schlecht und Gerät suchen

IO-Link spezifisch								
Index dez (hex)	Name	Format (Offset)	Länge	Zugriff ¹	Standard Wert	Wertebereich	Bemerkung [Einheit]	
12 (0x0C)	Gerätezugriffssperren	Record	2 Byte	rw				
1 (0x01)	Parameter (Schreib-)Zugriffssperre	Bit (0)	1 Bit	rw				
2 (0x02)	Datenspeicherungs-sperre	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	64 Byte	ro	SICK AG			
17 (0x11)	Herstellertext	String	64 Byte	ro				
18 (0x12)	Produktname	String	64 Byte	ro				
19 (0x13)	Produkt-ID	String	7 Byte	ro				
21 (0x15)	Seriennummer	String	16 Byte	ro				
22 (0x16)	Hardwareversion	String	8 Byte	ro				
23 (0x17)	Firmwareversion	String	12 Byte	ro				
24 (0x18)	Anwendungsspezifische Markierung	String	32 Byte	rw				
40 (0x28)	Prozessdaten Eingang	PD In	2 Byte	ro				

SICK spezifisch								
Index dez (hex)	Name	Format (Offset)	Länge	Zugriff ¹	Standard Wert	Wertebereich	Bemerkung [Einheit]	
60 (0x3C)	Q1 Schaltpunkte	Record	4 Byte	rw			Abhängig von Index 61 Sub 2	
1 (0x01)	Fern	Bit (16)	16 Bit	rw	30000	200...30000	[mm]	
2 (0x02)	Nah	Bit (0)	16 Bit	rw		200...30000	[mm]	



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ENGLISH

Table with columns: Index dec (hex), Name, Format (Offset), Length, Access, Default Value, Value / Range, Remark [Unit]. Rows include Switchpoint 1 settings, Q1 switching function, Q1 Hysteresis, Q2 switching points, Far, Near, Switchpoint 2 settings, Q2 output behaviour, Q2 switching function, Q2 Hysteresis, Integration time of measurement, Bit filter for switching output(s), Averaging for analog output, Display, User level for display, and Qa Operation mode.

DEUTSCH

Table with columns: Index dez (hex), Name, Format (Offset), Länge, Zugriff, Standard Wert, Wertebereich, Bemerkung [Einheit]. Rows include Schaltpunkt 1 - Einstellungen, Q1 Verhalten Schaltausgang, Q1 Schaltfunktion, Q2 Schaltpunkte, Fern, Nah, Schaltpunkt 2 - Einstellungen, Q2 Verhalten Schaltausgang, Q2 Schaltfunktion, Q2 Schalthysterese, Integrationszeit Messung, Bitfilter für die Schaltgänge, Mittelwertbildung für Analogausgang, and Display.

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)

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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]
79 (0x4F)	Qa near	Ulnt	16 Bit	rw	200	200...30000	Dependent on Index 121 and Index 75 [mm]
80 (0x50)	Qa far	Ulnt	16 Bit	rw	30000	200...30000	Dependent on Index 121 and Index 75 [mm]
81 (0x51)	Keylock	Ulnt	8 Bit	rw	0	0 = Unlocked 1 = Locked	Only available for display versions
84 (0x54)	User Tag 1	Ulnt	32 Bit	rw			UserTag 1
85 (0x55)	User Tag 2	Ulnt	16 Bit	rw			UserTag 2
89 (0x59)	Error Status	Ulnt	8 Bit	ro			
90 (0x5A)	Device Operating Time	Ulnt	32 Bit	ro			[h]
93 (0x5D)	SLW (Signal level warning) threshold	Record	4 Byte	rw			
1 (0x01)	SLW1 (Signal level warning 1) = Q1 threshold	Bit (16)	16 Bit	rw		0...6000	Dependent on Index 61 Sub 2
2 (0x02)	SLW2 (Signal level warning 2) = Q2 threshold	Bit (0)	16 Bit	rw		0...6000	Dependent on Index 121 and Index 63 Sub 2
94 (0x5E)	Q1 center	Ulnt	16 Bit	rw		200...30000	Dependent on Index 61 Sub 2 [mm]
95 (0x5F)	Q2 center	Ulnt	16 Bit	rw		200...30000	Dependent on Index 121 and Index 63 Sub 2 [mm]
96 (0x60)	Qa center	Ulnt	16 Bit	rw	15100	200...30000	Dependent on Index 121 and Index 75 [mm]
97 (0x61)	Laser	Ulnt	8 Bit	rw	1	0 = Off 1 = On	
99 (0x63)	MF configuration	Record	2 Byte	rw			Dependent on Index 122
1 (0x01)	Input behavior	Bit (8)	8 Bit	rw	0	0 = High active 1 = Low active	
2 (0x02)	Teach confirmation on Q1	Bit (0)	8 Bit	rw	1	0 = Yes 1 = No	
100 (0x64)	Analog output behavior	Ulnt	8 Bit	rw	0	0 = Rising 1 = Falling	Dependent on Index 121
103 (0x67)	Speed / Response time	Ulnt	8 Bit	rw	3	0 = Expert 1 = Super fast 2 = Fast 3 = Medium 4 = Slow 5 = Super slow	
104 (0x68)	Alarm behavior	Ulnt	8 Bit	rw	0	0 = Clamp 1 = Hold 2 = Hold x32 3 = Hold x16 4 = Hold x8 5 = Hold x4 6 = Hold x2	
105 (0x69)	Process data resolution	Ulnt	8 Bit	rw	1	0 = Distance in 1/10 mm 1 = Distance in mm 2 = Distance in cm	
107 (0x6B)	Process data offset	Ulnt	16 Bit	rw	0	0...50000	[mm]
109 (0x6D)	All process data	Record	13 Byte	ro			
1 (0x01)	Distance	Bit (88)	16 Bit	ro			
2 (0x02)	Signal Level	Bit (72)	16 Bit	ro			
3 (0x03)	Signal quality	Bit (64)	8 Bit	ro			
4 (0x04)	Status Q2	Bit (56)	8 Bit	ro			
5 (0x05)	Status Q1	Bit (48)	8 Bit	ro			
6 (0x06)	Status SLW1 (Signal level warning 1)	Bit (40)	8 Bit	ro			

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									
SICK spezifisch									
Index dez (hex)	Name	Format (Offset)	Länge	Zugriff ¹	Standard Wert	Wertebereich	Bemerkung [Einheit]		
73 (0x49)	Benutzerlevel Display	Ulnt	8 Bit	rw		0 = Einfach (Easy) 1 = Fortgeschritten (Advanced)	Nur bei Display Varianten verfügbar		
75 (0x4B)	Qa Betriebsart	Ulnt	8 Bit	rw	0	0 = Distanz 1 = Form	Abhängig von Index 121		
79 (0x4F)	Qa nah	Ulnt	16 Bit	rw	200	200...30000	Abhängig von Index 121 und Index 75 [mm]		
80 (0x50)	Qa fern	Ulnt	16 Bit	rw	30000	200...30000	Abhängig von Index 121 und Index 75 [mm]		
81 (0x51)	Tastensperre	Ulnt	8 Bit	rw	0	0 = Nicht gesperrt 1 = Gesperrt	Nur bei Display Varianten verfügbar		
84 (0x54)	Benutzermarke 1	Ulnt	32 Bit	rw			Benutzermarke 1		
85 (0x55)	Benutzermarke 2	Ulnt	16 Bit	rw			Benutzermarke 2		
89 (0x59)	Fehlerspeicher	Ulnt	8 Bit	ro					
90 (0x5A)	Betriebsstundenzähler	Ulnt	32 Bit	ro			[h]		
93 (0x5D)	SLW (Signalpegel-Warnung) Schwellwert	Record	4 Byte	rw					
1 (0x01)	SLW1 (Signalpegel-Warnung 1) = Schwellwert Q1	Bit (16)	16 Bit	rw		0...6000	Abhängig von Index 61 Sub 2		
2 (0x02)	SLW2 (Signalpegel-Warnung 2) = Schwellwert Q2	Bit (0)	16 Bit	rw		0...6000	Abhängig von Index 121 und Index 63 Sub 2		
94 (0x5E)	Q1 Mitte Schaltfenster	Ulnt	16 Bit	rw		200...30000	Abhängig von Index 61 Sub 2 [mm]		
95 (0x5F)	Q2 Mitte Schaltfenster	Ulnt	16 Bit	rw		200...30000	Abhängig von Index 121 und Index 63 Sub 2 [mm]		
96 (0x60)	Qa Mitte Analogausgang	Ulnt	16 Bit	rw	15100	200...30000	Abhängig von Index 121 und Index 75 [mm]		
97 (0x61)	Laser	Ulnt	8 Bit	rw	1	0 = Aus 1 = An			
99 (0x63)	MF Konfiguration	Record	2 Byte	rw			Abhängig von Index 122		
1 (0x01)	Verhalten Multifunktionsingang	Bit (8)	8 Bit	rw	0	0 = Schließer (high active) 1 = Öffner (low active)			
2 (0x02)	Teach-Bestätigung auf Q1	Bit (0)	8 Bit	rw	1	0 = Ja 1 = Nein			
100 (0x64)	Verhalten Analogausgang	Ulnt	8 Bit	rw	0	0 = Steigend 1 = Fallend	Abhängig von Index 121		
103 (0x67)	Geschwindigkeit / Ansprechzeit	Ulnt	8 Bit	rw	3	0 = Experte 1 = Superschnell 2 = Schnell 3 = Mittel 4 = Langsam 5 = Superlangsam			
104 (0x68)	Verhalten wenn keine Messung möglich	Ulnt	8 Bit	rw	0	0 = Maximalwert 1 = Gehalten 2 = Gehalten x32 3 = Gehalten x16 4 = Gehalten x8 5 = Gehalten x4 6 = Gehalten x2			
105 (0x69)	Prozessdaten-Auflösung	Ulnt	8 Bit	rw	1	0 = Distanz in 1/10 mm 1 = Distanz in mm 2 = Distanz in cm			
107 (0x6B)	Prozessdaten-Normierung (Offset)	Ulnt	16 Bit	rw	0	0...50000	[mm]		
109 (0x6D)	Alle Prozessdaten	Record	13 Byte	ro					
1 (0x01)	Distanz	Bit (88)	16 Bit	ro					
2 (0x02)	Signal Pegel	Bit (72)	16 Bit	ro					
3 (0x03)	Signalqualität	Bit (64)	8 Bit	ro					



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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]
7 (0x07)	Status Alarm	Bit (32)	8 Bit	ro			
8 (0x08)	Timer	Bit (16)	16 Bit	ro			
9 (0x09)	Shape match	Bit (8)	8 Bit	ro			
10 (0x0A)	Shape count	Bit (0)	8 Bit	ro			
111 (0x6F)	Shape trigger threshold	UInt	32 Bit	rw			Dependent on Index 61 Sub 2 or Index 121 and Index 63 Sub 2 or Index 121 and Index 75 [mm]
112 (0x70)	Length of reference object	UInt	32 Bit	rw		1...4294967295	Dependent on Index 61 Sub 2 or Index 121 and Index 63 Sub 2 or Index 121 and Index 75
113 (0x71)	Shape tolerance Q1	UInt	16 Bit	rw		1...100	Dependent on Index 61 Sub 2 [%]
114 (0x72)	Shape tolerance Q2	UInt	16 Bit	rw		1...100	Dependent on Index 121 and Index 63 Sub 2 [%]
115 (0x73)	Shape tolerance Qa good	UInt	16 Bit	rw		1...100	Dependent on Index 121 and Index 75 [%]
116 (0x74)	Shape tolerance Qa bad	UInt	16 Bit	rw		1...100	Dependent on Index 121 and Index 75 [%]
120 (0x78)	Process data structure	UInt	8 Bit	rw	3		0 = Distance + status Q1 + status Q2 1 = Distance + status SLW Q1 + status Alarm 2 = Level + status SLW Q1 + status Alarm 3 = Distance 4 = Distance + Signal quality 5 = Timer 6 = Timer + status Q1 + status Q2 7 = ShapeMatch + ShapeCount + status Q1 + status Q2
121 (0x79)	Q2 output function	UInt	8 Bit	rw	1		0 = Off 1 = 4...20 mA 2 = 0...10 V 3 = Switching 4 = Not Q1
122 (0x7A)	MF Function	UInt	8 Bit	rw	1		0 = Inactive 1 = External teach 2 = Laser on/off 4 = WiFi activation Value 4 only available for WiFi versions

DEUTSCH

SICK spezifisch								
Index dez (hex)	Name	Format (Offset)	Länge	Zugriff ¹	Standard Wert	Wertebereich	Bemerkung [Einheit]	
3 (0x03)	Signalqualität	Bit (64)	8 Bit	ro				
4 (0x04)	Status Q2	Bit (56)	8 Bit	ro				
5 (0x05)	Status Q1	Bit (48)	8 Bit	ro				
6 (0x06)	Status SLW1 (Signalpegel-Warnung 1)	Bit (40)	8 Bit	ro				
7 (0x07)	Status Alarm	Bit (32)	8 Bit	ro				
8 (0x08)	Timer	Bit (16)	16 Bit	ro				
9 (0x09)	Übereinstimmung Formvergleich	Bit (8)	8 Bit	ro				
10 (0x0A)	Zähler Formvergleich	Bit (0)	8 Bit	ro				
111 (0x6F)	Form Trigger-Schwelle	UInt	32 Bit	rw			Abhängig von Index 61 Sub 2 or Index 121 and Index 63 Sub 2 or Index 121 and Index 75 [mm]	
112 (0x70)	Länge des Referenzobjektes	UInt	32 Bit	rw		1...4294967295	Abhängig von Index 61 Sub 2 or Index 121 and Index 63 Sub 2 or Index 121 and Index 75	
113 (0x71)	Form-Toleranz Q1	UInt	16 Bit	rw		1...100	Abhängig von Index 61 Sub 2 [%]	
114 (0x72)	Form-Toleranz Q2	UInt	16 Bit	rw		1...100	Abhängig von Index 121 und Index 63 Sub 2 [%]	
115 (0x73)	Form-Toleranz Qa gut	UInt	16 Bit	rw		1...100	Abhängig von Index 121 und Index 75 [%]	
116 (0x74)	Form-Toleranz Qa schlecht	UInt	16 Bit	rw		1...100	Abhängig von Index 121 und Index 75 [%]	
120 (0x78)	IO-Link Prozessdaten	UInt	8 Bit	rw	3		0 = Distanz + Status Q1 + Status Q2 1 = Distanz + Status SLW Q1 + Status Alarm 2 = Pegel + Status SLW Q1 + Status Alarm 3 = Distanz 4 = Distanz + Signalqualität 5 = Timer 6 = Timer + Status Q1 + Status Q2 7 = Form-Übereinstimmung + Zähler + Status Q1 + Status Q2	
121 (0x79)	Q2 Ausgangsfunktion	UInt	8 Bit	rw	1		0 = Aus 1 = 4...20 mA 2 = 0...10 V 3 = Schaltend 4 = Q1 nicht	
122 (0x7A)	MF Funktion	UInt	8 Bit	rw	1		0 = Inaktiv 1 = Externer Teach 2 = Laser an/aus 4 = WiFi Aktivierung Wert 4 nur bei WiFi Varianten verfügbar	

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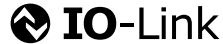
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Please note the validity of the additional operating instructions for automation functions

ENGLISH

SICK device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark [Unit]
130 (0x82)	Teach	Ulnt	16 Bit	wo		0 = undefined 1 = Q1 Distance to object (DtO) - active high 2 = Q1 Distance to object (DtO) - active low 3 = Q1 SLW (Signal level warning) - active high 4 = Q1 SLW (Signal level warning) - active low 5 = Q2 Distance to object (DtO) - active high 6 = Q2 Distance to object (DtO) - active low 7 = Q2 SLW (Signal level warning) - active high 8 = Q2 SLW (Signal level warning) - active low 9 = Q1 near 10 = Q1 far 11 = Q1 center 12 = Q2 near 13 = Q2 far 14 = Q2 center 15 = Q1 Background (ObSB) - active high 16 = Q1 Background (ObSB) - active low 17 = Q2 Background (ObSB) - active high 18 = Q2 Background (ObSB) - active low 19 = Qa 4mA 20 = Qa 20mA 21 = Qa 0V 22 = Qa 10V 23 = Qa center (12mA or 5V) 24 = Shape length 25 = Shape reference 26 = Q1 bad shape tolerance 27 = Q1 good shape tolerance 28 = Q2 bad shape tolerance 29 = Q2 good shape tolerance 30 = Qa 4mA shape tolerance 31 = Qa 20mA shape tolerance 32 = Qa 0V shape tolerance 33 = Qa 10V shape tolerance 34 = Shape Stop 35 = Teach fine +10mm 36 = Teach fine -10mm	Will affect the related output settings accordingly
131 (0x83)	Teach Status	Ulnt	8 Bit	ro		0 = Running / Idle 1 = Teach OK 2 = Teach Fail	
149 (0x95)	WiFi Settings	Record	126 Byte	rw			Only available for WiFi versions
1 (0x01)	Mode	Bit (1000)	8 Bit	rw		0 = Client 1 = Server	
2 (0x02)	SSID	Bit (744)	32 Byte	rw			

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DEUTSCH

SICK spezifisch									
Index dez (hex)	Name	Format (Offset)	Länge	Zugriff ¹	Standard Wert	Wertebereich	Bemerkung [Einheit]		
130 (0x82)	Teach	Ulnt	16 Bit	wo		0 1 = Q1 Distanz zum Objekt (DtO) - Schließer (active high) 2 = Q1 Distanz zum Objekt (DtO) - Öffner (active low) 3 = Q1 SLW (Signalpegel-Warnung) - Schließer (active high) 4 = Q1 SLW (Signalpegel-Warnung) - Öffner (active low) 5 = Q2 Distanz zum Objekt (DtO) - Schließer (active high) 6 = Q2 Distanz zum Objekt (DtO) - Öffner (active low) 7 = Q2 SLW (Signalpegel-Warnung) - Schließer (active high) 8 = Q2 SLW (Signalpegel-Warnung) - Öffner (active low) 9 = Q1 nah 10 = Q1 fern 11 = Q1 Mitte 12 = Q2 nah 13 = Q2 fern 14 = Q2 Mitte 15 = Q1 Hintergrund (ObSB) - Schließer (active high) 16 = Q1 Hintergrund (ObSB) - Öffner (active low) 17 = Q2 Hintergrund (ObSB) - Schließer (active high) 18 = Q2 Hintergrund (ObSB) - Öffner (active low) 19 = Qa 4mA 20 = Qa 20mA 21 = Qa 0V 22 = Qa 10V 23 = Qa Mittenposition (12mA oder 5V) 24 = Form Länge 25 = Form Referenz 26 = Q1 Schlechtform-Toleranz 27 = Q1 Gutform-Toleranz 28 = Q2 Schlechtform-Toleranz 29 = Q2 Gutform-Toleranz 30 = Qa 4mA Form-Toleranz 31 = Qa 20mA Form-Toleranz 32 = Qa 0V Form-Toleranz 33 = Qa 10V Form-Toleranz 34 = Formvergleich Teach beenden 35 = Feinteach +10mm 36 = Feinteach -10mm	Wirkt sich auf die entsprechenden Einstellungen der Ausgänge aus		



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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]
3 (0x03)	Channel	Bit (736)	8 Bit	rw		1 = Channel 1 2 = Channel 2 3 = Channel 3 4 = Channel 4 5 = Channel 5 6 = Channel 6 7 = Channel 7 8 = Channel 8 9 = Channel 9 10 = Channel 10 11 = Channel 11 12 = Channel 12 13 = Channel 13	
4 (0x04)	IP address	Bit (704)	4 Byte	rw			
5 (0x05)	Subnet mask	Bit (672)	4 Byte	rw			
6 (0x06)	Gateway	Bit (640)	4 Byte	rw			
7 (0x07)	Port	Bit (608)	32 Bit	rw			
8 (0x08)	Encryption	Bit (600)	8 Bit	rw		2 = WPA 3 = Mixed WPA WPA2 4 = WPA2	
9 (0x09)	WPA key	Bit (88)	64 Byte	rw			
10 (0x0A)	Switch off behaviour	Bit (80)	8 Bit	rw		0 = Auto off 1 = Permanent on 2 = Permanent off	
11 (0x0B)	Switch off time	Bit (48)	32 Bit	rw			
12 (0x0C)	DHCP	Bit (40)	8 Bit	rw		0 = Inactive 1 = Active	
150 (0x96)	WiFi Command	Ulnt	16 Bit	wo		0 = Reset auto-off timer 1 = Reset WiFi settings 2 = Store WiFi settings	Only available for WiFi versions
153 (0x99)	Temperature	Int	8 Bit	ro			[°C]
204 (0xCC)	Find me	Ulnt	8 Bit	rw	0	0 = Find me off 1 = Find me on	
205 (0xCD)	SICK Profile Version	String	4 Byte	ro			
212 (0xD4)	Timer function for switching output(s)	Ulnt	8 Bit	rw	0	0 = Disabled 1 = ON delay 2 = Off delay 3 = On / Off delay 4 = One Shot	
214 (0xD6)	Time of timer	Ulnt	16 Bit	rw		0...65535	Dependent on Index 212 [ms]

DEUTSCH								
SICK spezifisch								
Index dez (hex)	Name	Format (Offset)	Länge	Zugriff ¹	Standard Wert	Wertebereich	Bemerkung [Einheit]	
131 (0x83)	Teach Status	Ulnt	8 Bit	ro		0 = Aktiv / Leerlauf 1 = Teach OK 2 = Teach Fehler		
149 (0x95)	WiFi-Einstellungen	Record	126 Byte	rw			Nur bei WiFi Varianten verfügbar	
1 (0x01)	Modus	Bit (1000)	8 Bit	rw		0 = Client 1 = Server		
2 (0x02)	SSID	Bit (744)	32 Byte	rw				
3 (0x03)	Kanal	Bit (736)	8 Bit	rw		1 = Kanal 1 2 = Kanal 2 3 = Kanal 3 4 = Kanal 4 5 = Kanal 5 6 = Kanal 6 7 = Kanal 7 8 = Kanal 8 9 = Kanal 9 10 = Kanal 10 11 = Kanal 11 12 = Kanal 12 13 = Kanal 13		
4 (0x04)	IP Adresse	Bit (704)	4 Byte	rw				
5 (0x05)	Subnetz Maske	Bit (672)	4 Byte	rw				
6 (0x06)	Gateway	Bit (640)	4 Byte	rw				
7 (0x07)	Port	Bit (608)	32 Bit	rw				
8 (0x08)	Verschlüsselung	Bit (600)	8 Bit	rw		2 = WPA 3 = Mixed WPA WPA2 4 = WPA2		
9 (0x09)	WPA Schlüssel	Bit (88)	64 Byte	rw				
10 (0x0A)	Ausschalt-Verhalten	Bit (80)	8 Bit	rw		0 = Automatisch ausschalten 1 = Permanent Ein 2 = Permanent Aus		
11 (0x0B)	Ausschaltzeit	Bit (48)	32 Bit	rw				
12 (0x0C)	DHCP	Bit (40)	8 Bit	rw		0 = Inaktiv 1 = Aktiv		
150 (0x96)	WiFi Kommando	Ulnt	16 Bit	wo		0 = Auto-Ausschaltzeit zurücksetzen 1 = WiFi Einstellungen zurücksetzen 2 = WiFi Einstellungen speichern	Nur bei WiFi Varianten verfügbar	
153 (0x99)	Temperatur	Int	8 Bit	ro			[°C]	
204 (0xCC)	Gerät suchen	Ulnt	8 Bit	rw	0	0 = Gerät suchen aus 1 = Gerät suchen an		
205 (0xCD)	SICK Profil-Version	String	4 Byte	ro				
212 (0xD4)	Q Zeitfunktion	Ulnt	8 Bit	rw	0	0 = Inaktiv 1 = Anschaltverzögerung 2 = Ausschaltverzögerung 3 = Ein- / Ausschaltverzögerung 4 = Einmal-Zeitgeber		
214 (0xD6)	Zeit der Zeitfunktion	Ulnt	16 Bit	rw		0...65535	Abhängig von Index 212 [ms]	

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)



8016778 ZKH3

DT50-2 Pro

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Danmark Phone +45 45 82 64 00	Schweiz Phone +41 41 619 29 39
Deutschland Phone +49 211 5301 301	Slovakei Phone +386 (0)1 47 69 990
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France Phone +33 1 64 62 39 00	South Korea Phone +82 2 786 6321/4
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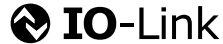
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ENGLISH					
Standard command					
Index dec (hex)		Access ¹	Value	Name	Remark [Unit]
2 (0x02)	Standard Command	wo	130	Restore Factory Settings	

Events			
Code dec (hex)	Name	Type	Remark [Unit]
0 (0x00)	No malfunction	Notification	

DEUTSCH					
Standardkommando					
Index dez (hex)		Zugriff ¹	Wert	Name	Bemerkung [Einheit]
2 (0x02)	Standardkommando	wo	130	Auslieferungszustand wiederherstellen	

Events			
Code dez (hex)	Name	Typ	Bemerkung [Einheit]
0 (0x00)	Keine Fehlfunktion	Notification	