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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            | 23.2 ms        |
| Baudrate <sup>2</sup>     | COM2           |
| Process Data Length (IN)  | 4 Byte         |
| IODD version              | V187006.604799 |
| Valid for IO-Link version | 1.1.0          |

2. Process data

Record<sup>1</sup>: 4 Byte

|               |  |    |    |    |    |    |    |    |  |  |  |  |  |  |  |
|---------------|--|----|----|----|----|----|----|----|--|--|--|--|--|--|--|
| Bitoffset     |  |    |    |    |    |    |    |    |  |  |  |  |  |  |  |
| Byte 0        | 31                                       | 30 | 29 | 28 | 27 | 26 | 25 | 24 |  |  |  |  |  |  |  |
| Type/Subindex | Integer 16                               |    |    |    |    |    |    |    |  |  |  |  |  |  |  |
| Bitoffset     |  |    |    |    |    |    |    |    |  |  |  |  |  |  |  |
| Byte 1        | 23                                       | 22 | 21 | 20 | 19 | 18 | 17 | 16 |  |  |  |  |  |  |  |
| Type/Subindex | Integer 16                               |    |    |    |    |    |    |    |  |  |  |  |  |  |  |
| Bitoffset     |  |    |    |    |    |    |    |    |  |  |  |  |  |  |  |
| Byte 2        | 15                                       | 14 | 13 | 12 | 11 | 10 | 9  | 8  |  |  |  |  |  |  |  |
| Type/Subindex | Integer 8                                |    |    |    |    |    |    |    |  |  |  |  |  |  |  |
| Bitoffset     |  |    |    |    |    |    |    |    |  |  |  |  |  |  |  |
| Byte 3        | 7  | 6  | 5  | 4  | 3  | 2  | 1  | 0  |  |  |  |  |  |  |  |
| Type/Subindex | Switch signal channel el 1 state Boolean |    |    |    |    |    |    |    |  |  |  |  |  |  |  |

3. Service data

The following ISDU will not be saved via Data-Storage: Teach-in channel

| 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                  |                      |   |   |
| 1 (0x01)             | Direct Parameters 2           | Record              | 16 Byte | rw                  |                      |   |   |
| 12 (0x0C)            | Device Access Locks           | Record <sup>3</sup> | 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                  | Sensor Intelligence. |   |   |
| 18 (0x12)            | Product Name                  | String              | 64 Byte | ro                  |                      |   |   |
| 19 (0x13)            | Product ID                    | String              | 64 Byte | ro                  |                      |   |   |
| 20 (0x14)            | Product Text                  | String              | 64 Byte | ro                  | Ultrasonic Sensor    |   |   |
| 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                  |                      |   |   |
| 32 (0x20)            | Error Count                   | UInt                | 16 Bit  | ro                  |                      |   |   |
| 36 (0x24)            | Device Status                 | UInt                | 8 Bit   | ro                  |                      | 0 = Device is OK<br>1 = Maintenance required<br>2 = Out of specification<br>3 = Functional check<br>4 = Failure<br>5...255 = Reserved |   |
| 37 (0x25)            | Detailed Device Status        | Array <sup>3</sup>  | 30 Byte | ro                  |                      | Octet String [10]   |   |
| 40 (0x28)            | Process Data Input            | PD In               | 4 Byte  | ro                  |                      |   |   |
| SICK device specific |                               |                     |         |                     |                      |   |   |
| Index dec (hex)      | Name                          | Format (Offset)     | Length  | Access <sup>1</sup> | Default Value        | Value / Range   | Remark [Unit]                                     |
| 58 (0x3A)            | Teach-in channel              | UInt                | 8 Bit   | rw                  | 0                    | 0 = SSC1: pin 4 (push-pull)<br>1 = SSC1: pin 4 (push-pull)  | Choice of channel for the next teach-in procedure |

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            | 23.2 ms        |
| Baudrate <sup>2</sup>      | COM2           |
| Prozessdatenlänge (IN)     | 4 Byte         |
| IODD Version               | V187006.604799 |
| Gültig für IO-Link Version | 1.1.0          |

2. Prozessdaten

Record<sup>1</sup>: 4 Byte

|               |                             |    |    |    |    |    |    |    |  |  |  |  |  |  |  |
|---------------|-----------------------------|----|----|----|----|----|----|----|--|--|--|--|--|--|--|
| Bitoffset     |                             |    |    |    |    |    |    |    |  |  |  |  |  |  |  |
| Byte 0        | 31                          | 30 | 29 | 28 | 27 | 26 | 25 | 24 |  |  |  |  |  |  |  |
| Type/Subindex | Integer 16                  |    |    |    |    |    |    |    |  |  |  |  |  |  |  |
| Bitoffset     |                             |    |    |    |    |    |    |    |  |  |  |  |  |  |  |
| Byte 1        | 23                          | 22 | 21 | 20 | 19 | 18 | 17 | 16 |  |  |  |  |  |  |  |
| Type/Subindex | Integer 16                  |    |    |    |    |    |    |    |  |  |  |  |  |  |  |
| Bitoffset     |                             |    |    |    |    |    |    |    |  |  |  |  |  |  |  |
| Byte 2        | 15                          | 14 | 13 | 12 | 11 | 10 | 9  | 8  |  |  |  |  |  |  |  |
| Type/Subindex | Integer 8                   |    |    |    |    |    |    |    |  |  |  |  |  |  |  |
| Bitoffset     |                             |    |    |    |    |    |    |    |  |  |  |  |  |  |  |
| Byte 3        | 7                           | 6  | 5  | 4  | 3  | 2  | 1  | 0  |  |  |  |  |  |  |  |
| Type/Subindex | Schaltkanal Zustand Boolean |    |    |    |    |    |    |    |  |  |  |  |  |  |  |

3. Servicedaten

Die folgende ISDU wird nicht über Data-Storage gesichert: Teach-in Kanal

| 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                   |                      |   |  |  |  |
| 1 (0x01)           | Direkte Parameter 2                 | Record              | 16 Byte | rw                   |                      |   |  |  |  |
| 12 (0x0C)          | Gerätezugriffssperren               | Record <sup>3</sup> | 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 Benutzerschnittstelle-Sperre | Bit (3)             | 1 Bit   | rw                   |                      |   |  |  |  |
| 16 (0x10)          | Herstellernamen                     | String              | 64 Byte | ro                   | SICK AG              |   |  |  |  |
| 17 (0x11)          | Herstellertext                      | String              | 64 Byte | ro                   | Sensor Intelligence. |   |  |  |  |
| 18 (0x12)          | Produktname                         | String              | 64 Byte | ro                   |                      |   |  |  |  |
| 19 (0x13)          | Produkt-ID                          | String              | 64 Byte | ro                   |                      |   |  |  |  |
| 20 (0x14)          | Produkttext                         | String              | 64 Byte | ro                   | Ultrasonic Sensor    |   |  |  |  |
| 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                   |                      |   |  |  |  |
| 32 (0x20)          | Fehlerzähler                        | UInt                | 16 Bit  | ro                   |                      |   |  |  |  |
| 36 (0x24)          | Gerätestatus                        | UInt                | 8 Bit   | ro                   |                      | 0 = Gerät ist OK<br>1 = Wartung erforderlich<br>2 = Außerhalb der Spezifikation<br>3 = Funktionsprüfung<br>4 = Fehler<br>5...255 = Reserviert |  |  |  |
| 37 (0x25)          | Ausführlicher Gerätestatus          | Array <sup>3</sup>  | 30 Byte | ro                   |                      | Octet String [10]   |  |  |  |
| 40 (0x28)          | Prozessdaten Eingang                | PD In               | 4 Byte  | ro                   |                      |   |  |  |  |
| SICK spezifisch    |                                     |                     |         |                      |                      |   |  |  |  |
| Index dez (hex)    | Name                                | Format (Offset)     | Länge   | Zugriff <sup>1</sup> | Standard Wert        | Wertebereich  | Bemerkung [Einheit]                                  |  |  |
| 58 (0x3A)          | Teach-in Kanal                      | UInt                | 8 Bit   | rw                   | 0                    | 0 = SSC1: Pin 4 (Push-Pull)<br>1 = SSC1: Pin 4 (Push-Pull)  | Auswahl des Kanals für den nächsten Teach-In Vorgang |  |  |

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

<sup>2</sup>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)

<sup>3</sup>Subindex access not supported / Subindexzugriff nicht unterstützt



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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]  |
| 59 (0x3B)            | Teach-in status             | Re-cord <sup>3</sup> | 1 Byte | ro                  |               |   |  |
| 1 (0x01)             | Teach-in status             | Bit (0)              | 4 Bit  | ro                  | 0             | 0 = Idle<br>1 = SP1 success<br>2 = SP2 success<br>3 = SP12 success<br>4 = Wait for command<br>5 = Busy<br>7 = Error   |  |
| 2 (0x02)             | SP1 TP1                     | Bit (4)              | 1 Bit  | ro                  | 0             |   |  |
| 3 (0x03)             | SP2 TP1                     | Bit (6)              | 1 Bit  | ro                  | 0             |   |  |
| 60 (0x3C)            | SSC1 parameter              | Record               | 4 Byte | rw                  |               |   |  |
| 1 (0x01)             | SP1                         | Bit (16)             | 16 Bit | rw                  | 1300          | 200...1998  | Setpoint 1 for switching output [mm]   |
| 2 (0x02)             | SP2                         | Bit (0)              | 16 Bit | rw                  | 1500          | 200...1998  | Setpoint 2 for switching output [mm]   |
| 61 (0x3D)            | SSC1 configuration          | Record               | 4 Byte | rw                  |               |   |  |
| 1 (0x01)             | Logic                       | Bit (24)             | 8 Bit  | rw                  | 0             | 0 = High active<br>1 = Low active   | Logic state for target detected  |
| 2 (0x02)             | Mode                        | Bit (16)             | 8 Bit  | rw                  | 1             | 0 = Deactivated<br>1 = Single point (SP1: DtO)<br>2 = Window (SP1, SP2: window mode)<br>3 = Two point (SP1, SP2: hysteresis mode)<br>128 = Single point + set point offset (SP1: DtO + offset)<br>129 = Window ± set point offset (SP1: ObSB) | Operating mode of the switching output: distance to object (DtO), window mode, hysteresis mode, distance to object (DtO) + Offset, object between sensor and background mode (ObSB)  |
| 3 (0x03)             | Hysteresis                  | Bit (0)              | 16 Bit | rw                  | 20            | 1...1798  | Hysteresis for SP1 and SP2 [mm]  |
| 100 (0x64)           | SSC1 advanced configuration | Record               | 3 Byte | rw                  |               |   |  |
| 1 (0x01)             | Switch-on delay             | Bit (16)             | 8 Bit  | rw                  | 0             | 0...20  | Switch-on delay in seconds [s]   |
| 2 (0x02)             | Switch-off delay            | Bit (8)              | 8 Bit  | rw                  | 0             | 0...20  | Switch-off delay in seconds [s]  |
| 3 (0x03)             | Set point offset            | Bit (0)              | 8 Bit  | rw                  | 8             | 1...20  | Offset value in % of SP1, which will be added to or subtracted from SP1. [%]   |
| 200 (0x08)           | Measurement configuration   | Record               | 4 Byte | rw                  |               |   |  |
| 1 (0x01)             | Foreground suppression      | Bit (16)             | 16 Bit | rw                  | 176           | 176...600   | The start of the measurement evaluation will be shifted from the blind zone to the value of the foreground suppression. [mm]   |
| 2 (0x02)             | Limiting range              | Bit (0)              | 16 Bit | rw                  | 2000          | 2000...9999   | [mm]   |
| 220 (0xDC)           | Sensitivity                 | Record               | 5 Byte | rw                  |               |   | The width of the detection area can only be affected electronically through the sensitivity setting of the sensor. The detection area is wide when choosing high sensitivity and it is narrow when choosing low sensitivity. |
| 1 (0x01)             | Type                        | Bit (32)             | 8 Bit  | rw                  | 2             | 1 = Wide detection area<br>2 = Standard detection area<br>3 = Variable detection area   |  |
| 2 (0x02)             | Lowest sensitivity until    | Bit (16)             | 16 Bit | rw                  | 182           | 182...2000  | [mm]   |

| DEUTSCH         |                               |                      |        |                      |               |   |   |
|-----------------|-------------------------------|----------------------|--------|----------------------|---------------|---|---|
| SICK spezifisch |                               |                      |        |                      |               |   |   |
| Index dez (hex) | Name                          | Format (Offset)      | Länge  | Zugriff <sup>1</sup> | Standard Wert | Wertebereich  | Bemerkung [Einheit]   |
| 59 (0x3B)       | Teach-in Status               | Re-cord <sup>3</sup> | 1 Byte | ro                   |               |   |   |
| 1 (0x01)        | Teach-in Status               | Bit (0)              | 4 Bit  | ro                   | 0             | 0 = Untätig<br>1 = SP1 erfolgreich<br>2 = SP2 erfolgreich<br>3 = SP12 erfolgreich<br>4 = Warte auf Kommando<br>5 = In Arbeit<br>7 = Fehler  |   |
| 2 (0x02)        | SP1 TP1                       | Bit (4)              | 1 Bit  | ro                   | 0             |   |   |
| 3 (0x03)        | SP2 TP1                       | Bit (6)              | 1 Bit  | ro                   | 0             |   |   |
| 60 (0x3C)       | SSC1 Parameter                | Record               | 4 Byte | rw                   |               |   |   |
| 1 (0x01)        | SP1                           | Bit (16)             | 16 Bit | rw                   | 1300          | 200...1998  | Setpoint 1 für Schalt-ausgang [mm]  |
| 2 (0x02)        | SP2                           | Bit (0)              | 16 Bit | rw                   | 1500          | 200...1998  | Setpoint 2 für Schalt-ausgang [mm]  |
| 61 (0x3D)       | SSC1 Konfiguration            | Record               | 4 Byte | rw                   |               |   |   |
| 1 (0x01)        | Logik                         | Bit (24)             | 8 Bit  | rw                   | 0             | 0 = High active<br>1 = Low active   | Logischer Zustand bei Objekt detektiert   |
| 2 (0x02)        | Modus                         | Bit (16)             | 8 Bit  | rw                   | 1             | 0 = Deaktiviert<br>1 = Einzelpunkt (SP1: DtO)<br>2 = Fenster (SP1, SP2: Fensterbetrieb)<br>3 = Zweipunkt (SP1, SP2: HysteresebetrieB)<br>128 = Einzelpunkt + Offset (SP1: DtO + Offset)<br>129 = Fenster ± Offset (SP1: ObSB) | Betriebsart des Schalt-ausgangs: Distanz zu Objekt (DtO), Fensterbetrieb, Hysteresenbetrieb, Distanz zu Objekt (DtO) + Offset, Objekt zwischen Sensor und Hintergrund Betrieb (ObSB)  |
| 3 (0x03)        | Hysteresis                    | Bit (0)              | 16 Bit | rw                   | 20            | 1...1798  | Hysteresis für SP1 und SP2 [mm]   |
| 100 (0x64)      | SSC1 erweiterte Konfiguration | Record               | 3 Byte | rw                   |               |   |   |
| 1 (0x01)        | Einschaltverzögerung          | Bit (16)             | 8 Bit  | rw                   | 0             | 0...20  | Einschaltverzögerung in Sekunden [s]  |
| 2 (0x02)        | Ausschaltverzögerung          | Bit (8)              | 8 Bit  | rw                   | 0             | 0...20  | Ausschaltverzögerung in Sekunden [s]  |
| 3 (0x03)        | Schaltpunktoffset             | Bit (0)              | 8 Bit  | rw                   | 8             | 1...20  | Offsetwert in % von SP1, der dem SP1 aufaddiert oder subtrahiert wird [%]   |
| 200 (0x08)      | Messkonfiguration             | Record               | 4 Byte | rw                   |               |   |   |
| 1 (0x01)        | Vordergrundaussblendung       | Bit (16)             | 16 Bit | rw                   | 176           | 176...600   | Verschiebt den Beginn der Messwertauswertung von der Blindzone auf den Wert der Vordergrundaussblendung. [mm]   |
| 2 (0x02)        | Grenzreichweite               | Bit (0)              | 16 Bit | rw                   | 2000          | 2000...9999   | [mm]  |
| 220 (0xDC)      | Empfindlichkeit               | Record               | 5 Byte | rw                   |               |   | Die Breite des Erfassungsbereichs kann elektronisch nur über die Empfindlichkeitseinstellung des Sensors beeinflusst werden: Bei hoher Empfindlichkeit ist der Erfassungsbereich breit, bei niedriger Empfindlichkeit schmal. |
| 1 (0x01)        | Typ                           | Bit (32)             | 8 Bit  | rw                   | 2             | 1 = Breiter Erfassungsbereich<br>2 = Standard Erfassungsbereich<br>3 = Variabler Erfassungsbereich  |   |
| 2 (0x02)        | Geringste Empfindlichkeit bis | Bit (16)             | 16 Bit | rw                   | 182           | 182...2000  | [mm]  |

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

<sup>2</sup>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)

<sup>3</sup>Subindex access not supported / Subindexzugriff nicht unterstützt



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9282071 133C (1.1.0)

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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]  |
| 3 (0x03)             | Highest sensitivity above               | Bit (0)         | 16 Bit | rw                  | 2545          | 253...30032  | [mm]   |
| 256 (0x100)          | Filter                                  | Record          | 2 Byte | rw                  |               |  |  |
| 1 (0x01)             | Type                                    | Bit (8)         | 8 Bit  | rw                  | 1             | 0 = F00: no filter<br>1 = F01: approximation filter<br>2 = F02: averaging filter<br>3 = F03: foreground filter<br>4 = F04: background filter   | Measurement filter for the evaluation of the measured values   |
| 2 (0x02)             | Strength                                | Bit (0)         | 8 Bit  | rw                  | 0             | 0 = P00: weak filter<br>1 = P01<br>2 = P02<br>3 = P03<br>4 = P04<br>5 = P05<br>6 = P06<br>7 = P07<br>8 = P08<br>9 = P09: strong filter   | Strength of the chosen measurement filter  |
| 257 (0x101)          | Interfering noise suppression           | Record          | 1 Byte | rw                  |               |  | Unwanted interfering noise from surroundings can be hidden automatically, if the detected objects cover the interfering source.  |
| 1 (0x01)             | Mode                                    | Bit (0)         | 8 Bit  | rw                  | 0             | 0 = Inactive<br>1 = Active   |  |
| 300 (0x12C)          | Temperature compensation                | Record          | 2 Byte | rw                  |               |  | The sensor is equipped with an internal temperature unit in order to determine the ambient temperature. Thus the temperature dependency of the sound velocity in air is compensated. |
| 1 (0x01)             | Source of temperature                   | Bit (8)         | 8 Bit  | rw                  | 1             | 0 = Reference temperature<br>1 = Internal Temperature  | Evaluate the data of the internal temperature unit or use the reference temperature.   |
| 2 (0x02)             | Reference temperature                   | Bit (0)         | 8 Bit  | rw                  | 20            | -25...70   | Is the internal temperature unit deactivated, the temperature compensation is using the reference temperature. [°C]  |
| 350 (0x15E)          | Synchronisation and multiplex operation | Record          | 3 Byte | rw                  |               |  |  |
| 1 (0x01)             | Mode                                    | Bit (16)        | 8 Bit  | rw                  | 1             | 0 = Inactive<br>1 = Active   |  |
| 2 (0x02)             | Sensor operation                        | Bit (8)         | 8 Bit  | rw                  | 0             | 0 = Synchronisation active<br>1 = Multiplex address 1<br>2 = Multiplex address 2<br>3 = Multiplex address 3<br>4 = Multiplex address 4<br>5 = Multiplex address 5<br>6 = Multiplex address 6<br>7 = Multiplex address 7<br>8 = Multiplex address 8<br>9 = Multiplex address 9<br>10 = Multiplex address 10 |  |

| DEUTSCH         |                                      |                 |        |                      |               |   |   |
|-----------------|--------------------------------------|-----------------|--------|----------------------|---------------|---|---|
| SICK spezifisch |                                      |                 |        |                      |               |   |   |
| Index dez (hex) | Name                                 | Format (Offset) | Länge  | Zugriff <sup>1</sup> | Standard Wert | Wertebereich  | Bemerkung [Einheit]   |
| 3 (0x03)        | Höchste Empfindlichkeit ab           | Bit (0)         | 16 Bit | rw                   | 2545          | 253...30032   | [mm]  |
| 256 (0x100)     | Filter                               | Record          | 2 Byte | rw                   |               |   |   |
| 1 (0x01)        | Typ                                  | Bit (8)         | 8 Bit  | rw                   | 1             | 0 = F00: kein Filter<br>1 = F01: Annäherungsfilter<br>2 = F02: Mittelwertfilter<br>3 = F03: Vordergrundfilter<br>4 = F04: Hintergrundfilter   | Messwertfilter für die Auswertung der gemessenen Abstandswerte  |
| 2 (0x02)        | Stärke                               | Bit (0)         | 8 Bit  | rw                   | 0             | 0 = P00: schwache Filterwirkung<br>1 = P01<br>2 = P02<br>3 = P03<br>4 = P04<br>5 = P05<br>6 = P06<br>7 = P07<br>8 = P08<br>9 = P09: starke Filterwirkung  | Stärke des gewählten Messwertfilters  |
| 257 (0x101)     | Störgeräuschunterdrückung            | Record          | 1 Byte | rw                   |               |   | Unerwünschte Störgeräusche aus der Umgebung können dann automatisch ausgeblendet werden, wenn bei Anwesenheit der zu erfassenden Objekte diese die Störquelle abdecken/ausblenden.            |
| 1 (0x01)        | Modus                                | Bit (0)         | 8 Bit  | rw                   | 0             | 0 = Inaktiv<br>1 = Aktiv  |   |
| 300 (0x12C)     | Temperaturkompensation               | Record          | 2 Byte | rw                   |               |   | Der Sensor ist mit einem internen Temperaturfühler ausgestattet, um die Umgebungstemperatur zu erfassen. Damit wird die Temperaturabhängigkeit der Schallgeschwindigkeit in Luft kompensiert. |
| 1 (0x01)        | Quelle der Temperatur                | Bit (8)         | 8 Bit  | rw                   | 1             | 0 = Referenztemperatur<br>1 = Interne Temperaturmessung   | Internen Temperaturfühler auswerten oder feste Referenztemperatur verwenden   |
| 2 (0x02)        | Referenztemperatur                   | Bit (0)         | 8 Bit  | rw                   | 20            | -25...70  | Ist der Temperaturfühler deaktiviert, greift die Temperaturkompensation auf die feste Referenztemperatur zurück. [°C]   |
| 350 (0x15E)     | Synchronisation und Multiplexbetrieb | Record          | 3 Byte | rw                   |               |   |   |
| 1 (0x01)        | Modus                                | Bit (16)        | 8 Bit  | rw                   | 1             | 0 = Inaktiv<br>1 = Aktiv  |   |
| 2 (0x02)        | Sensorbetriebsart                    | Bit (8)         | 8 Bit  | rw                   | 0             | 0 = Synchronisation aktiv<br>1 = Multiplexadresse 1<br>2 = Multiplexadresse 2<br>3 = Multiplexadresse 3<br>4 = Multiplexadresse 4<br>5 = Multiplexadresse 5<br>6 = Multiplexadresse 6<br>7 = Multiplexadresse 7<br>8 = Multiplexadresse 8<br>9 = Multiplexadresse 9<br>10 = Multiplexadresse 10 |   |

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

<sup>2</sup> 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

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| SICK device specific |                                      |                 |         |                     |               |  |   |
|----------------------|--------------------------------------|-----------------|---------|---------------------|---------------|--|---|
| Index dec (hex)      | Name                                 | Format (Offset) | Length  | Access <sup>1</sup> | Default Value | Value / Range  | Remark [Unit]   |
| 3 (0x03)             | Multiplex number of participants     | Bit (0)         | 8 Bit   | rw                  | 10            | 2 = 2 participants<br>3 = 3 participants<br>4 = 4 participants<br>5 = 5 participants<br>6 = 6 participants<br>7 = 7 participants<br>8 = 8 participants<br>9 = 9 participants<br>10 = 10 participants | Maximum number of multiplex participants should be adjusted to correct number of participants in order to speed up multiplex operation. |
| 370 (0x172)          | Button                               | Record          | 1 Byte  | rw                  |               |  |   |
| 1 (0x01)             | Mode                                 | Bit (0)         | 8 Bit   | rw                  | 1             | 0 = Inactive<br>1 = Active   |   |
| 371 (0x173)          | Display                              | Record          | 1 Byte  | rw                  |               |  |   |
| 1 (0x01)             | Mode                                 | Bit (0)         | 8 Bit   | rw                  | 1             | 0 = Inactive<br>1 = Active   |   |
| 1000 (0x3E8)         | Echo diagnosis                       | Record          | 2 Byte  | ro                  |               |  |   |
| 1 (0x01)             | Quality                              | Bit (0)         | 16 Bit  | ro                  | 0             |  |   |
| 16512 (0x4080)       | Measurement data channel description | Record          | 11 Byte | ro                  |               |  |   |
| 1 (0x01)             | Lower limit                          | Bit (56)        | 32 Bit  | ro                  | 176           |  | Lower limit of the measuring range (blind zone) [mm]  |
| 2 (0x02)             | Upper limit                          | Bit (24)        | 32 Bit  | ro                  | 2000          |  | Upper limit of the measuring range (maximum range) [mm]   |
| 3 (0x03)             | Unit code                            | Bit (8)         | 16 Bit  | ro                  | 1013          |  | IO-Link unit code: 1013 = [mm]  |
| 4 (0x04)             | Scale                                | Bit (0)         | 8 Bit   | ro                  | 0             |  | Process data value * (10 ^ scale) [Unit code] = measuring value in mm   |

| Standard command |                  |                     |       |                           |               |
|------------------|------------------|---------------------|-------|---------------------------|---------------|
| Index dec (hex)  | Name             | Access <sup>1</sup> | Value | Name                      | Remark [Unit] |
| 2 (0x02)         | Standard Command | wo                  | 65    | SP1 single value teach-in |               |
|                  |                  |                     | 66    | SP2 single value teach-in |               |
|                  |                  |                     | 130   | Restore Factory Settings  |               |

| Events         |                   |              |                                      |
|----------------|-------------------|--------------|--------------------------------------|
| Code dec (hex) | Name              | Type         | Remark [Unit]                        |
| 16384 (0x4000) | Temperature fault | Error        | Overload                             |
| 30480 (0x7710) | Short circuit     | Error        | Check installation                   |
| 36000 (0x8CA0) | Teach-in error    | Notification | Teach-in process was not successful. |
| 36001 (0x8CA1) | Teach-in success  | Notification | Teach-in process was successful.     |

**DEUTSCH**

| SICK spezifisch |                            |                 |         |                      |               |  |   |
|-----------------|----------------------------|-----------------|---------|----------------------|---------------|--|---|
| Index dez (hex) | Name                       | Format (Offset) | Länge   | Zugriff <sup>1</sup> | Standard Wert | Wertebereich   | Bemerkung [Einheit]   |
| 3 (0x03)        | Multiplex-Teilnehmeranzahl | Bit (0)         | 8 Bit   | rw                   | 10            | 2 = 2 Teilnehmer<br>3 = 3 Teilnehmer<br>4 = 4 Teilnehmer<br>5 = 5 Teilnehmer<br>6 = 6 Teilnehmer<br>7 = 7 Teilnehmer<br>8 = 8 Teilnehmer<br>9 = 9 Teilnehmer<br>10 = 10 Teilnehmer | Die maximale Anzahl von Multiplex-Teilnehmern sollte auf die richtige Anzahl der Teilnehmer eingestellt werden, um den Multiplexbetrieb zu beschleunigen. |
| 370 (0x172)     | Taster                     | Record          | 1 Byte  | rw                   |               |  |   |
| 1 (0x01)        | Modus                      | Bit (0)         | 8 Bit   | rw                   | 1             | 0 = Inaktiv<br>1 = Aktiv   |   |
| 371 (0x173)     | Display                    | Record          | 1 Byte  | rw                   |               |  |   |
| 1 (0x01)        | Modus                      | Bit (0)         | 8 Bit   | rw                   | 1             | 0 = Inaktiv<br>1 = Aktiv   |   |
| 1000 (0x3E8)    | Echo Diagnose              | Record          | 2 Byte  | ro                   |               |  |   |
| 1 (0x01)        | Güte                       | Bit (0)         | 16 Bit  | ro                   | 0             |  |   |
| 16512 (0x4080)  | Messdatenkanalbeschreibung | Record          | 11 Byte | ro                   |               |  |   |
| 1 (0x01)        | Untere Grenze              | Bit (56)        | 32 Bit  | ro                   | 176           |  | Untere Grenze des Messbereiches (Blindzone) [mm]  |
| 2 (0x02)        | Obere Grenze               | Bit (24)        | 32 Bit  | ro                   | 2000          |  | Obere Grenze des Messbereiches (Grenztastweite) [mm]  |
| 3 (0x03)        | Einheitencode              | Bit (8)         | 16 Bit  | ro                   | 1013          |  | IO-Link Einheitencode: 1013 = [mm]  |
| 4 (0x04)        | Skala                      | Bit (0)         | 8 Bit   | ro                   | 0             |  | Prozessdatenwert * (10 ^ Skala) [Einheitencode] = Messwert in mm  |

| Standardkommando |                  |                      |      |                                       |                     |
|------------------|------------------|----------------------|------|---------------------------------------|---------------------|
| Index dez (hex)  | Name             | Zugriff <sup>1</sup> | Wert | Name                                  | Bemerkung [Einheit] |
| 2 (0x02)         | Standardkommando | wo                   | 65   | SP1 Einzelpunkt Teach-in              |                     |
|                  |                  |                      | 66   | SP2 Einzelpunkt Teach-in              |                     |
|                  |                  |                      | 130  | Auslieferungszustand wiederherstellen |                     |

| Events         |                      |              |   |
|----------------|----------------------|--------------|---|
| Code dez (hex) | Name                 | Typ          | Bemerkung [Einheit]                         |
| 16384 (0x4000) | Temperaturfehler     | Error        | Überlast                                    |
| 30480 (0x7710) | Kurzschluss          | Error        | Überprüfen Sie die Installation             |
| 36000 (0x8CA0) | Teach-in Fehler      | Notification | Ein Teach-in-Vorgang war nicht erfolgreich. |
| 36001 (0x8CA1) | Teach-in erfolgreich | Notification | Ein Teach-in-Vorgang war erfolgreich.       |

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

<sup>2</sup> 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)

<sup>3</sup> Subindex access not supported / Subindexzugriff nicht unterstützt