



8023606 0319

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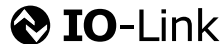
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Please note the validity of the additional operating instructions for automation functions

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 | 8.0 ms |
| Baudrate ² | COM2 |
| Process Data Length (IN) | 4 Byte |
| IODD version | V187017.598248 |
| Valid for IO-Link version | 1.1.0 |

2. Process data

Record: 4 Byte

| | | | | | | | | | | | | | | | | |
|---------------|--------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-------------------------------------|
| Bitoffset | | | | | | | | | | | | | | | | |
| Byte 0 | Process data value | | | | | | | | | | | | | | | |
| Type/Subindex | Integer 16 | | | | | | | | | | | | | | | |
| Bitoffset | | | | | | | | | | | | | | | | |
| Byte 1 | Process data value | | | | | | | | | | | | | | | |
| Type/Subindex | Integer 16 | | | | | | | | | | | | | | | |
| Bitoffset | | | | | | | | | | | | | | | | |
| Byte 2 | Process data scale | | | | | | | | | | | | | | | |
| Type/Subindex | Integer 8 | | | | | | | | | | | | | | | |
| Bitoffset | | | | | | | | | | | | | | | | |
| Byte 3 | | | | | | | | | | | | | | | | 0 |
| Type/Subindex | | | | | | | | | | | | | | | | 1 |
| | | | | | | | | | | | | | | | | Switch signal channel el 1 state |
| | | | | | | | | | | | | | | | | Boolean |
| | | | | | | | | | | | | | | | | 3 |

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 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 | | | |
| 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 | | | |
| 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 1 = Maintenance required 2 = Out of specification 3 = Functional check 4 = Failure 5...255 = Reserved | |

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 | 8.0 ms |
| Baudrate ² | COM2 |
| Prozessdatenlänge (IN) | 4 Byte |
| IODD Version | V187017.598248 |
| Gültig für IO-Link Version | 1.1.0 |

2. Prozessdaten

Record: 4 Byte

| | | | | | | | | | | | | | | | | |
|---------------|-----------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|------------------------|
| Bitoffset | | | | | | | | | | | | | | | | |
| Byte 0 | Prozessdaten-Messwert | | | | | | | | | | | | | | | |
| Type/Subindex | Integer 16 | | | | | | | | | | | | | | | |
| Bitoffset | | | | | | | | | | | | | | | | |
| Byte 1 | Prozessdaten-Messwert | | | | | | | | | | | | | | | |
| Type/Subindex | Integer 16 | | | | | | | | | | | | | | | |
| Bitoffset | | | | | | | | | | | | | | | | |
| Byte 2 | Prozessdaten-Skala | | | | | | | | | | | | | | | |
| Type/Subindex | Integer 8 | | | | | | | | | | | | | | | |
| Bitoffset | | | | | | | | | | | | | | | | |
| Byte 3 | | | | | | | | | | | | | | | | 0 |
| Type/Subindex | | | | | | | | | | | | | | | | 1 |
| | | | | | | | | | | | | | | | | Schaltkanal Zustand |
| | | | | | | | | | | | | | | | | Boolean |
| | | | | | | | | | | | | | | | | 3 |

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 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 | | | |
| 16 (0x10) | Herstellername | 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 | | | |
| 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 1 = Wartung erforderlich 2 = Außerhalb der Spezifikation 3 = Funktionsprüfung 4 = Fehler 5...255 = Reserviert | |

¹ ro = 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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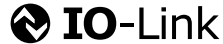
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| ENGLISH | | | | | | | |
|----------------------|-----------------------------|-----------------|---------|---------------------|---------------|---|---|
| IO-Link specific | | | | | | | |
| Index dec (hex) | Name | Format (Offset) | Length | Access ¹ | Default Value | Value / Range | Remark [Unit] |
| 37 (0x25) | Detailed Device Status | Array | 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 ¹ | Default Value | Value / Range | Remark [Unit] |
| 58 (0x3A) | Teach-in channel | Ulnt | 8 Bit | rw | 0 | 0 = SSC1: pin 4 (push-pull) 1 = SSC1: pin 4 (push-pull) | Choice of channel for the next teach-in procedure |
| 59 (0x3B) | Teach-in status | Record | 1 Byte | ro | | | |
| 1 (0x01) | Teach-in status | Bit (0) | 4 Bit | ro | 0 | 0 = Idle 1 = SP1 success 2 = SP2 success 3 = SP12 success 4 = Wait for command 5 = Busy 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 | 2500 | 300...3500 | Setpoint 1 for switching output; Values are output as a multiple of the scaling increment 0.1 [mm] |
| 2 (0x02) | SP2 | Bit (0) | 16 Bit | rw | 2800 | 300...3500 | Setpoint 2 for switching output; Values are output as a multiple of the scaling increment 0.1 [mm] |
| 61 (0x3D) | SSC1 configuration | Record | 4 Byte | rw | | | |
| 1 (0x01) | Logic | Bit (24) | 8 Bit | rw | 0 | 0 = High active 1 = Low active | Logic state for target detected |
| 2 (0x02) | Mode | Bit (16) | 8 Bit | rw | 1 | 0 = Deactivated 1 = Single point (SP1: DtO) 2 = Window (SP1, SP2: window mode) 3 = Two point (SP1, SP2: hysteresis mode) 128 = Single point + set point offset (SP1: DtO + offset) 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 | 30 | 10...3200 | Hysteresis for SP1 and SP2; Values are output as a multiple of the scaling increment 0.1 [mm] |
| 100 (0x64) | SSC1 advanced configuration | Record | 3 Byte | rw | | | |
| 1 (0x01) | Switch-on delay | Bit (16) | 8 Bit | rw | 0 | 0...255 | Switch-on delay in seconds; Values are output as a multiple of the scaling increment 0.1 [s] |

| DEUTSCH | | | | | | | |
|--------------------|-------------------------------|-----------------|---------|----------------------|---------------|--|--|
| IO-Link spezifisch | | | | | | | |
| Index dez (hex) | Name | Format (Offset) | Länge | Zugriff ¹ | Standard Wert | Wertebereich | Bemerkung [Einheit] |
| 37 (0x25) | Ausführlicher Geräte-status | Array | 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 ¹ | Standard Wert | Wertebereich | Bemerkung [Einheit] |
| 58 (0x3A) | Teach-in Kanal | Ulnt | 8 Bit | rw | 0 | 0 = SSC1: Pin 4 (Push-Pull) 1 = SSC1: Pin 4 (Push-Pull) | Auswahl des Kanals für den nächsten Teach-In Vorgang |
| 59 (0x3B) | Teach-in Status | Record | 1 Byte | ro | | | |
| 1 (0x01) | Teach-in Status | Bit (0) | 4 Bit | ro | 0 | 0 = Untätig 1 = SP1 erfolgreich 2 = SP2 erfolgreich 3 = SP12 erfolgreich 4 = Warte auf Kommando 5 = In Arbeit 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 | 2500 | 300...3500 | Setpoint 1 für Schalt-ausgang; Werte werden ausgegeben als Vielfaches der Skalierungs-Schrittweise 0.1 [mm] |
| 2 (0x02) | SP2 | Bit (0) | 16 Bit | rw | 2800 | 300...3500 | Setpoint 2 für Schalt-ausgang; Werte werden ausgegeben als Vielfaches der Skalierungs-Schrittweise 0.1 [mm] |
| 61 (0x3D) | SSC1 Konfiguration | Record | 4 Byte | rw | | | |
| 1 (0x01) | Logik | Bit (24) | 8 Bit | rw | 0 | 0 = High active 1 = Low active | Logischer Zustand bei Objekt detektiert |
| 2 (0x02) | Modus | Bit (16) | 8 Bit | rw | 1 | 0 = Deaktiviert 1 = Einzelpunkt (SP1: DtO) 2 = Fenster (SP1, SP2: Fensterbetrieb) 3 = Zweipunkt (SP1, SP2: HysteresebetrieB) 128 = Einzel-punkt + Offset (SP1: DtO + Offset) 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 | 30 | 10...3200 | Hysteresis für SP1 und SP2; Werte werden ausgegeben als Vielfaches der Skalierungs-Schrittweise 0.1 [mm] |
| 100 (0x64) | SSC1 erweiterte Konfiguration | Record | 3 Byte | rw | | | |
| 1 (0x01) | Einschaltverzögerung | Bit (16) | 8 Bit | rw | 0 | 0...255 | Einschaltverzögerung in Sekunden; Werte werden ausgegeben als Vielfaches der Skalierungs-Schrittweise 0.1 [s] |

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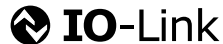
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| ENGLISH | | | | | | | |
|----------------------|---|-----------------|--------|---------------------|---------------|--|---|
| SICK device specific | | | | | | | |
| Index dec (hex) | Name | Format (Offset) | Length | Access ¹ | Default Value | Value / Range | Remark [Unit] |
| 2 (0x02) | switch-off delay | Bit (8) | 8 Bit | rw | 0 | 0...255 | Switch-off delay in seconds; Values are output as a multiple of the scaling increment 0.1 [s] |
| 3 (0x03) | Set point offset | Bit (0) | 8 Bit | rw | 8 | 2...20 | Offset value in % of SP1, which will be added to or subtracted from SP1. [%] |
| 200 (0x0C8) | Measurement configuration | Record | 2 Byte | rw | | | |
| 1 (0x01) | Foreground suppression | Bit (0) | 16 Bit | rw | 300 | 300...900 | The start of the measurement evaluation will be shifted from the blind zone to the value of the foreground suppression. Values are output as a multiple of the scaling increment 0.1 [mm] |
| 256 (0x100) | Filter | Record | 3 Byte | rw | | | |
| 1 (0x01) | Type | Bit (16) | 8 Bit | rw | 1 | 0 = F00: no filter 1 = F01: approximation filter 2 = F02: averaging filter 3 = F03: foreground filter 4 = F04: background filter | Measurement filter for the evaluation of the measured values |
| 2 (0x02) | Strength | Bit (8) | 8 Bit | rw | 0 | 0 = P00: weak filter 1 = P01 2 = P02 3 = P03 4 = P04 5 = P05 6 = P06 7 = P07 8 = P08 9 = P09: strong filter | Strength of the chosen measurement filter |
| 3 (0x03) | Maximum object speed | Bit (0) | 8 Bit | rw | 25 | 10...25 | Maximum object speed for a movement towards and away from the sensor. Valid (only) for type F01 and F02. Values are output as a multiple of the scaling increment 0.1 [m/s] |
| 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 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 | | | |

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|-----------------|--------------------------------------|-----------------|--------|----------------------|---------------|--|--|--|
| SICK spezifisch | | | | | | | | |
| Index dez (hex) | Name | Format (Offset) | Länge | Zugriff ¹ | Standard Wert | Wertebereich | Bemerkung [Einheit] | |
| 2 (0x02) | Ausschaltverzögerung | Bit (8) | 8 Bit | rw | 0 | 0...255 | Ausschaltverzögerung in Sekunden; Werte werden ausgegeben als Vielfaches der Skalierungs-Schrittweite 0.1 [s] | |
| 3 (0x03) | Schaltpunktoffset | Bit (0) | 8 Bit | rw | 8 | 2...20 | Offsetwert in % von SP1, der dem SP1 aufaddiert oder subtrahiert wird [%] | |
| 200 (0x0C8) | Messkonfiguration | Record | 2 Byte | rw | | | | |
| 1 (0x01) | Vordergrundaussblendung | Bit (0) | 16 Bit | rw | 300 | 300...900 | Verschiebt den Beginn der Messwertauswertung von der Blindzone auf den Wert der Vordergrundaussblendung. Werte werden ausgegeben als Vielfaches der Skalierungs-Schrittweite 0.1 [mm] | |
| 256 (0x100) | Filter | Record | 3 Byte | rw | | | | |
| 1 (0x01) | Typ | Bit (16) | 8 Bit | rw | 1 | 0 = F00: kein Filter 1 = F01: Annäherungsfilter 2 = F02: Mittelwertfilter 3 = F03: Vordergrundfilter 4 = F04: Hintergrundfilter | Messwertfilter für die Auswertung der gemessenen Abstandswerte | |
| 2 (0x02) | Stärke | Bit (8) | 8 Bit | rw | 0 | 0 = P00: schwache Filterwirkung 1 = P01 2 = P02 3 = P03 4 = P04 5 = P05 6 = P06 7 = P07 8 = P08 9 = P09: starke Filterwirkung | Stärke des gewählten Messwertfilters | |
| 3 (0x03) | Maximale Objektgeschwindigkeit | Bit (0) | 8 Bit | rw | 25 | 10...25 | Maximale Objektgeschwindigkeit für eine Bewegung auf den Sensor zu und von diesem weg, gilt nur für Typ F01 und F02. Werte werden ausgegeben als Vielfaches der Skalierungs-Schrittweite 0.1 [m/s] | |
| 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 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 | | | | |

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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)



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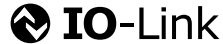
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| ENGLISH | | | | | | | |
|----------------------|--------------------------------------|-----------------|---------|---------------------|---------------|--|---|
| SICK device specific | | | | | | | |
| Index dec (hex) | Name | Format (Offset) | Length | Access ¹ | Default Value | Value / Range | Remark [Unit] |
| 1 (0x01) | Mode | Bit (16) | 8 Bit | rw | 1 | 0 = Inactive 1 = Active | |
| 2 (0x02) | Sensor operation | Bit (8) | 8 Bit | rw | 0 | 0 = Synchronisation active 1 = Multiplex address 1 2 = Multiplex address 2 3 = Multiplex address 3 4 = Multiplex address 4 5 = Multiplex address 5 6 = Multiplex address 6 7 = Multiplex address 7 8 = Multiplex address 8 9 = Multiplex address 9 10 = Multiplex address 10 128 = IO-Link synchronisation active | |
| 3 (0x03) | Multiplex number of participants | Bit (0) | 8 Bit | rw | 10 | 2 = 2 participants 3 = 3 participants 4 = 4 participants 5 = 5 participants 6 = 6 participants 7 = 7 participants 8 = 8 participants 9 = 9 participants 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) | Pin 5 | Record | 1 Byte | rw | | | |
| 1 (0x01) | Mode | Bit (0) | 8 Bit | rw | 1 | 0 = Inactive 1 = Active | |
| 371 (0x173) | LED | Record | 1 Byte | rw | | | |
| 1 (0x01) | Mode | Bit (0) | 8 Bit | rw | 1 | 0 = Inactive 1 = Active | |
| 2000 (0x7D0) | Temperature compensation diagnosis | Record | 3 Byte | ro | | | |
| 1 (0x01) | Sensor temperature | Bit (8) | 16 Bit | ro | | | [°C] |
| 2 (0x02) | Heating-up phase | Bit (0) | 8 Bit | ro | | 0 = Not completed 1 = Completed | |
| 16512 (0x4080) | Measurement data channel description | Record | 11 Byte | ro | | | |
| 1 (0x01) | Lower limit | Bit (56) | 32 Bit | ro | | | Lower limit of the measuring range (blind zone) [mm] |
| 2 (0x02) | Upper limit | Bit (24) | 32 Bit | ro | | | Upper limit of the measuring range (maximum range) [mm] |
| 3 (0x03) | Unit code | Bit (8) | 16 Bit | ro | | | IO-Link unit code: 1013 = [mm] |
| 4 (0x04) | Scale | Bit (0) | 8 Bit | ro | | | Process data value * (10 ^ scale) [Unit code] = measuring value in mm |

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|-----------------|-------------------------------------|-----------------|---------|----------------------|---------------|--|---|--|
| SICK spezifisch | | | | | | | | |
| Index dez (hex) | Name | Format (Offset) | Länge | Zugriff ¹ | Standard Wert | Wertebereich | Bemerkung [Einheit] | |
| 1 (0x01) | Modus | Bit (16) | 8 Bit | rw | 1 | 0 = Inaktiv 1 = Aktiv | | |
| 2 (0x02) | Sensorbetriebsart | Bit (8) | 8 Bit | rw | 0 | 0 = Synchronisation aktiv 1 = Multiplex-adresse 1 2 = Multiplex-adresse 2 3 = Multiplex-adresse 3 4 = Multiplex-adresse 4 5 = Multiplex-adresse 5 6 = Multiplex-adresse 6 7 = Multiplex-adresse 7 8 = Multiplex-adresse 8 9 = Multiplex-adresse 9 10 = Multiplex-adresse 10 128 = IO-Link Synchronisation aktiv | | |
| 3 (0x03) | Multiplex-Teilnehmeranzahl | Bit (0) | 8 Bit | rw | 10 | 2 = 2 Teilnehmer 3 = 3 Teilnehmer 4 = 4 Teilnehmer 5 = 5 Teilnehmer 6 = 6 Teilnehmer 7 = 7 Teilnehmer 8 = 8 Teilnehmer 9 = 9 Teilnehmer 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) | Pin 5 | Record | 1 Byte | rw | | | | |
| 1 (0x01) | Modus | Bit (0) | 8 Bit | rw | 1 | 0 = Inaktiv 1 = Aktiv | | |
| 371 (0x173) | LED | Record | 1 Byte | rw | | | | |
| 1 (0x01) | Modus | Bit (0) | 8 Bit | rw | 1 | 0 = Inaktiv 1 = Aktiv | | |
| 2000 (0x7D0) | Diagnose der Temperaturkompensation | Record | 3 Byte | ro | | | | |
| 1 (0x01) | Sensortemperatur | Bit (8) | 16 Bit | ro | | | [°C] | |
| 2 (0x02) | Aufheizphase | Bit (0) | 8 Bit | ro | | 0 = Nicht abgeschlossen 1 = Abgeschlossen | | |
| 16512 (0x4080) | Messdatenkanalbeschreibung | Record | 11 Byte | ro | | | | |
| 1 (0x01) | Untere Grenze | Bit (56) | 32 Bit | ro | | | Untere Grenze des Messbereiches (Blindzone) [mm] | |
| 2 (0x02) | Obere Grenze | Bit (24) | 32 Bit | ro | | | Obere Grenze des Messbereiches (Grenztaste) [mm] | |
| 3 (0x03) | Einheitencode | Bit (8) | 16 Bit | ro | | | IO-Link Einheitencode: 1013 = [mm] | |
| 4 (0x04) | Skala | Bit (0) | 8 Bit | ro | | | Prozessdatenwert * (10 ^ Skala) [Einheitencode] = Messwert in mm | |

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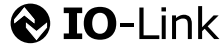
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| ENGLISH | | | | | |
|------------------|------------------|---------------------|-------|---------------------------|---------------|
| Standard command | | | | | |
| Index dec (hex) | | Access ¹ | Value | Name | Remark [Unit] |
| 2 (0x02) | Standard Command | wo | 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 |
| 16912 (0x4210) | Device temperature over-run | Warning | Clear source of heat |
| 16928 (0x4220) | Device temperature under-run | Warning | Insulate device |
| 20736 (0x5100) | General power supply fault | Error | Check availability |
| 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. |
| 36002 (0x8CA2) | CycleTime error | Notification | CycleTime error is triggered if cycle time does not correspond to the permitted configuration. |

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|------------------|------------------|----------------------|------|---------------------------------------|---------------------|
| Standardkommando | | | | | |
| Index dez (hex) | | Zugriff ¹ | 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 | |
| 16912 (0x4210) | Zulässige Gerätetemperatur überschritten | Warning | Lokalisieren Sie die Wärmequelle | |
| 16928 (0x4220) | Zulässige Gerätetemperatur unterschritten | Warning | Isolieren Sie das Gerät | |
| 20736 (0x5100) | Allgemeiner Fehler der Versorgungsspannung | Error | Überprüfen Sie die Verfügbarkeit | |
| 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. | |
| 36002 (0x8CA2) | CycleTime Fehler | Notification | Ein CycleTimeError wird ausgelöst, wenn die CycleTime nicht der erlaubten Konfiguration entspricht. | |