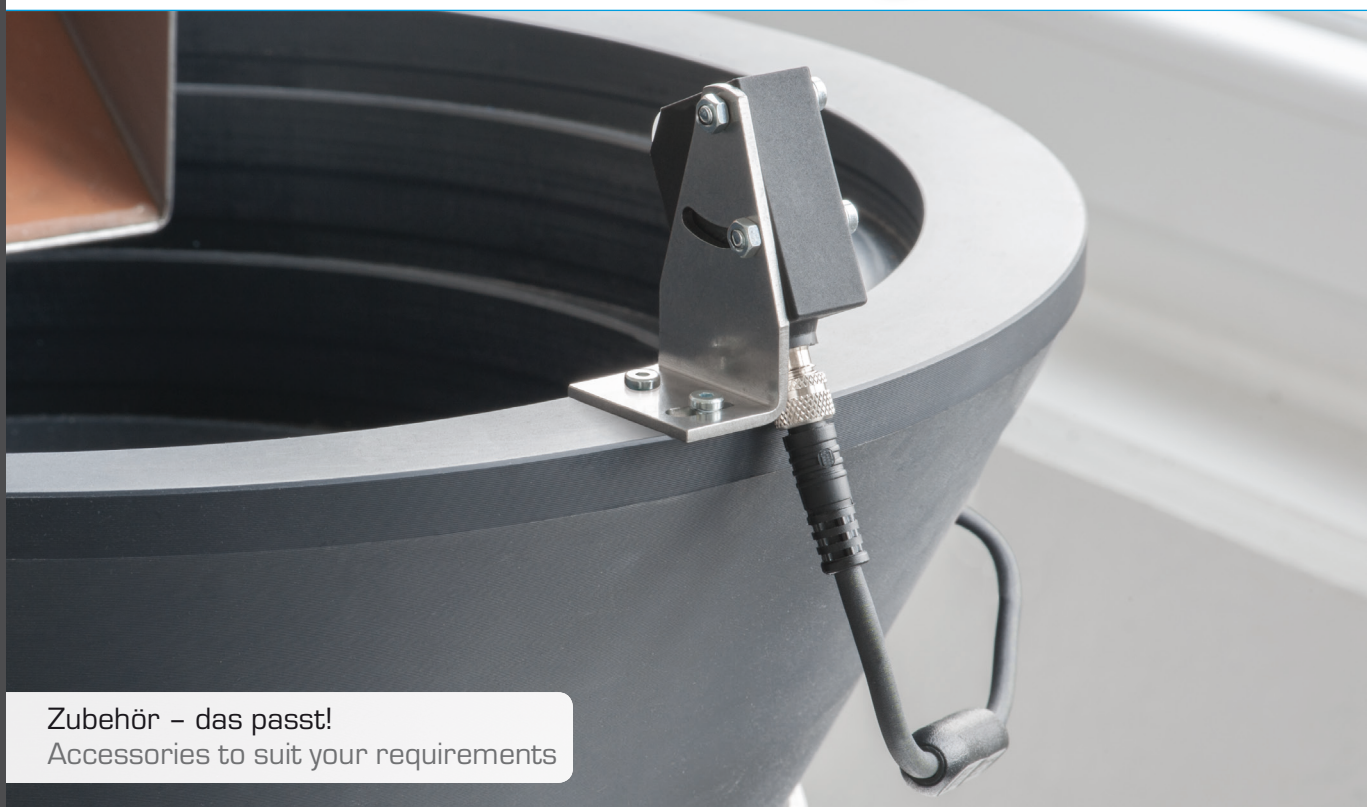


Zubehör  
Accessories



Made in Germany



Zubehör – das passt!  
Accessories to suit your requirements

## Allgemeine Beschreibung

### Verbindungssteile, Signalwandler und Signalzähler

Diverse Verbindungssteile und Signalwandler ermöglichen eine hohe Flexibilität bei der Planung, Montage und Wartung sowie späteren Umrüstung an bestehenden Anlagen. Signalzähler minimieren die Überproduktion bei teilebezogenen Aufträgen, zum Beispiel Verbindungssteilen oder Schrauben.

### Montagesysteme

Das umfangreiche Programm an Montagesystemen wird den häufigsten Anforderungen zur fixen Sensorbefestigung mittels Klemmbock oder Befestigungswinkel bis hin zur Montage an modular aufgebauten Sensorhaltesystemen gerecht.

### Hilfsmittel

Ob zum Einhalten geforderter Anzugsmomente oder zum Ablängen von Lichtleitkabel, das Zubehörprogramm bietet diverse Hilfsmittel zur fachgerechten Montage aller Sensoren von di-soric sowie diversen weiteren Herstellern an.

Der Sensortester zur Funktionsprüfung der Sensoren sowie Reflektoren in unterschiedlichsten Abmessungen und Ausführungen runden das umfangreiche Zubehörprogramm ab.

## General description

### Connection parts, signal converters and signal counters

Various connection parts and signal converters allow a great flexibility in planning, assembly, maintenance and subsequent conversion of existing systems. Signal counters minimise overproduction for parts-related orders, for example for connection parts or screws.

### Assembly systems

The extensive range of assembly systems satisfies all your needs for fixed sensor attachment using a clamping block or mounting bracket and extends to highly flexible assembly using a modular sensor retaining system.

### Utilities

Whether you need to comply with required tightening torques or cut fibre optic cables to length, the di-soric range of accessories includes various aids for the professional assembly of all di-soric sensors as well as sensors from various other manufacturers.

The sensor tester for testing the function of sensors and reflectors in a wide range of different dimensions and designs rounds off the comprehensive range of accessories.

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### Sicherheitshinweis

Der Einsatz dieser Geräte muss durch Fachpersonal erfolgen. Die Geräte sind nicht zulässig für Sicherheitsanwendungen, insbesondere bei denen die Sicherheit von Personen von der Gerätefunktion abhängig ist.

Alle technischen Angaben beziehen sich auf den Stand 02/13, Änderungen bleiben vorbehalten. Da Irrtümer und Druckfehler nicht auszuschließen sind, gilt für alle Angaben „ohne Gewähr“.

### Safety instruction

These instruments shall exclusively be used by qualified personnel. The instruments are not to be used for safety applications, in particular applications in which safety of persons depends on proper operation of the instruments.

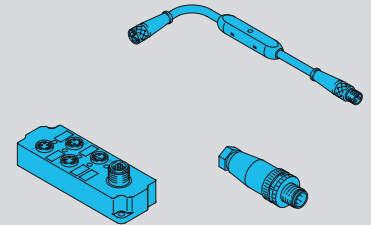
All technical specifications refer to the state of the art 02/13, they are subject to modifications. As typographical and other errors cannot be excluded, all data are given „without engagement“.

## Kapitelübersicht | Chapter overview

### Verbindungsteile, Signalwandler/-zähler

#### Connection parts, signal converters and counters

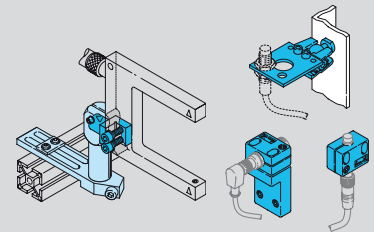
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### Montagesysteme

#### Assembly systems

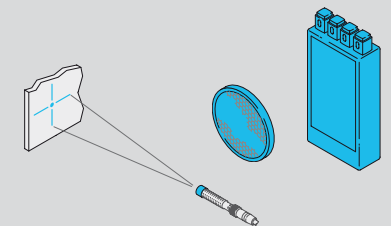
|                          |                               |           |
|--------------------------|-------------------------------|-----------|
| Sensorhalter Serie A - C | Mounting bracket series A - C | 17 ... 23 |
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| Taumelplatte             | Swash plate                   | 28        |
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### Hilfsmittel

#### Utilities

|                           |                              |           |
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| Schneidmesser             | Cutting tool                 | 28        |
| Vorsatzoptik-Laserkreuz   | Laser-cross optics           | 28        |
| Sensortester              | Sensor tester                | 29        |
| Reflektoren, Reflexfolien | Reflectors, reflection foils | 30 ... 31 |

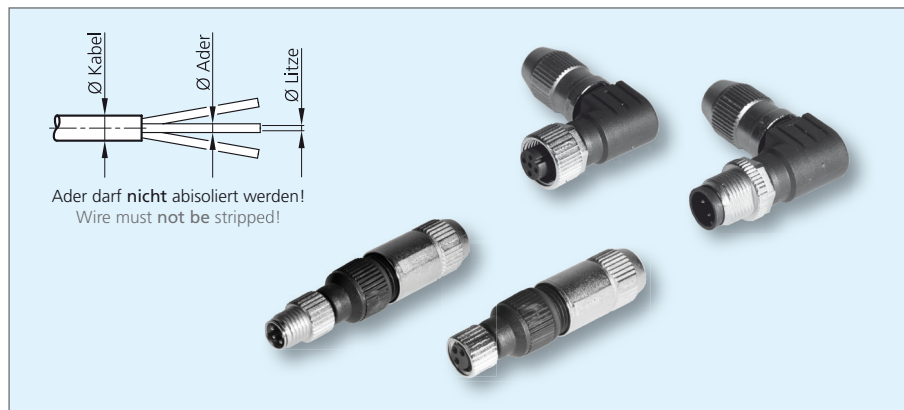


## Steckverbinder M8/M12, Schnellmontage

### Connectors M8/M12, quick mounting

- Metall-/Kunststoffgehäuse
- Metallgewinde drehbar
- Schnellmontage ohne Werkzeuge
- 3- oder 4-polig
- Hohe Schutzart bis IP 67

- Metal/Plastic casing
- Turnable metal screw
- Quick mounting without tools
- 3 or 4 pin
- High protection class by IP 67



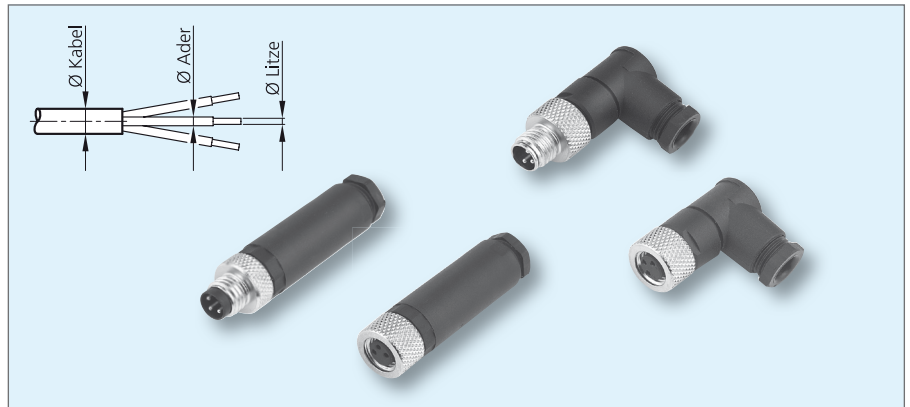
|                                                   | Anschlussschema<br>(Blick auf Anschlusseite)<br>(View on connection position) | Stecker / Polzahl<br>Connector / Nos. pins | Kupplung / Polzahl<br>Coupling / Nos. pins | Max. Spannungsbereich (V)<br>Max. voltage range (V) |  | Ø Kabel<br>Ø cable         | Ø Ader<br>Ø wire | Querschnitt Litzen<br>(mm <sup>2</sup> )<br>Cross section flexible wires<br>(mm <sup>2</sup> ) |                                               |
|---------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------|--------------------------------------------|-----------------------------------------------------|--|----------------------------|------------------|------------------------------------------------------------------------------------------------|-----------------------------------------------|
| <b>Steckverbinder M8/M12</b><br>Connectors M8/M12 |                                                                               |                                            |                                            |                                                     |  |                            |                  |                                                                                                | <b>Bestelltabelle</b><br>Purchase order table |
|                                                   | BK 4<br>BU 3 1 BN                                                             | M8-3                                       | 32                                         |                                                     |  | 2,5 ... 5,1<br>4,0 ... 5,1 | 1,2 ... 1,6      | 0,14 ... 0,34<br>0,25 ... 0,5                                                                  | MS-Z-8/0.14<br>MS-Z-8                         |
|                                                   | BK 4 2 WH<br>BU 3 1 BN                                                        | M8-4                                       | 32                                         |                                                     |  | 2,5 ... 5,1<br>4,0 ... 5,1 | 1,2 ... 1,6      | 0,14 ... 0,34<br>0,25 ... 0,5                                                                  | MS-Z-8/4/0.14<br>MS-Z-8/4                     |
|                                                   | BK 4<br>BN 1 3 BU                                                             | M8-3                                       | 32                                         |                                                     |  | 2,5 ... 5,1<br>4,0 ... 5,1 | 1,2 ... 1,6      | 0,14 ... 0,34<br>0,25 ... 0,5                                                                  | MK-Z-8/0.14<br>MK-Z-8                         |
|                                                   | WH 2 4 BK<br>BN 1 3 BU                                                        | M8-4                                       | 32                                         |                                                     |  | 2,5 ... 5,1<br>4,0 ... 5,1 | 1,2 ... 1,6      | 0,14 ... 0,34<br>0,25 ... 0,5                                                                  | MK-Z-8/4/0.14<br>MK-Z-8/4                     |
|                                                   | BU 3 4 BK                                                                     | M12-4                                      | 32                                         |                                                     |  | 2,9 ... 5,1<br>4,0 ... 5,1 | 1,2 ... 1,6      | 0,14 ... 0,34<br>0,25 ... 0,5                                                                  | MS-Z-12/4/0.14<br>MS-Z-12/4                   |
|                                                   | WH 2 1 BN                                                                     | M12-4                                      | 32                                         |                                                     |  | 4,0 ... 5,1                | 1,2 ... 1,6      | 0,25 ... 0,5                                                                                   | MS-W-12/4                                     |
|                                                   | BK 4 3 BU                                                                     | M12-4                                      | 32                                         |                                                     |  | 2,9 ... 5,1<br>4,0 ... 5,1 | 1,2 ... 1,6      | 0,14 ... 0,34<br>0,25 ... 0,5                                                                  | MK-Z-12/4/0.14<br>MK-Z-12/4                   |
|                                                   | BN 1 NC                                                                       | M12-4                                      | 32                                         |                                                     |  | 4,0 ... 5,1                | 1,2 ... 1,6      | 0,25 ... 0,5                                                                                   | MK-W-12/4                                     |

# Steckverbinder M8 / M12, montierbar Connectors M8 / M12, mountable



- Kunststoffgehäuse
- Metallgewinde
- Lötanschluss oder Anschlussklemmen
- 3,4- oder 5-polig
- Hohe Schutzart bis IP 67

- Plastic casing
- Metal screw
- Soldered connection or Connecting clamps
- 3,4 or 5 pin
- High protection class by IP 67



|                                            | <div>Anschlussschema<br/>(Blick auf Anschlussseite)<br/>(View on connection<br/>position)</div> | <div>Stecker / Polzahl<br/>Connector / Nos. pins</div> | <div>Kupplung / Polzahl<br/>Coupling / Nos. pins</div> | <div>Schnellmontage<br/>quick mounting</div> | <div>Anschlussklemmen<br/>Connecting clamps</div> | <div>Lötanschluss<br/>Soldered connection</div> | <div>Max. Spannungsbereich (V)<br/>Max. voltage range (V)</div> | <div>Ø Kabel<br/>Ø Cable</div> | <div>Querschnitt Litzen<br/>(mm<sup>2</sup>)<br/>Cross section flexible wires<br/>(mm<sup>2</sup>)</div> |                                        |
|--------------------------------------------|-------------------------------------------------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|----------------------------------------------|---------------------------------------------------|-------------------------------------------------|-----------------------------------------------------------------|--------------------------------|----------------------------------------------------------------------------------------------------------|----------------------------------------|
| Steckverbinder M8/M12<br>Connectors M8/M12 |                                                                                                 |                                                        |                                                        |                                              |                                                   |                                                 |                                                                 |                                |                                                                                                          | Bestelltabelle<br>Purchase order table |
|                                            |                                                                                                 | M8-3                                                   |                                                        | ■                                            |                                                   | 32                                              | 3,5 ... 5,0                                                     | 0,25 ... 0,34                  |                                                                                                          | BS-Z-8/S                               |
|                                            |                                                                                                 | M8-4                                                   |                                                        |                                              |                                                   |                                                 |                                                                 |                                |                                                                                                          | BS-Z-8/4/S                             |
|                                            |                                                                                                 | M8-3                                                   |                                                        |                                              | ■                                                 | 32                                              | 3,5 ... 5,0                                                     | 0,25 ... 0,34                  |                                                                                                          | BS-W-8                                 |
|                                            |                                                                                                 | M8-4                                                   |                                                        |                                              |                                                   |                                                 |                                                                 |                                |                                                                                                          | BS-W-8/4                               |
|                                            |                                                                                                 | M8-3                                                   |                                                        | ■                                            |                                                   | 32                                              | 3,5 ... 5,0                                                     | 0,25 ... 0,34                  |                                                                                                          | BK-Z-8/S                               |
|                                            |                                                                                                 | M8-4                                                   |                                                        |                                              |                                                   |                                                 |                                                                 |                                |                                                                                                          | BK-Z-8/4/S                             |
|                                            |                                                                                                 | M8-3                                                   |                                                        |                                              | ■                                                 | 32                                              | 3,5 ... 5,0                                                     | 0,25 ... 0,34                  |                                                                                                          | BK-W-8                                 |
|                                            |                                                                                                 | M8-4                                                   |                                                        |                                              |                                                   |                                                 |                                                                 |                                |                                                                                                          | BK-W-8/4                               |
|                                            |                                                                                                 | M12-4                                                  |                                                        | ■                                            |                                                   |                                                 | 4,0 ... 6,0                                                     | 0,75                           |                                                                                                          | BS-Z-12                                |
|                                            |                                                                                                 | M12-5                                                  |                                                        |                                              |                                                   |                                                 |                                                                 |                                |                                                                                                          | BS-Z-12/5                              |
|                                            |                                                                                                 | M12-4                                                  |                                                        | ■                                            |                                                   |                                                 | 4,0 ... 6,0                                                     | 0,75                           |                                                                                                          | BS-W-12                                |
|                                            |                                                                                                 | M12-5                                                  |                                                        |                                              |                                                   |                                                 |                                                                 |                                |                                                                                                          | BS-W-12/5                              |
|                                            |                                                                                                 | M12-4                                                  |                                                        | ■                                            |                                                   |                                                 | 4,0 ... 6,0                                                     | 0,75                           |                                                                                                          | BK-Z-12                                |
|                                            |                                                                                                 | M12-5                                                  |                                                        |                                              |                                                   |                                                 |                                                                 |                                |                                                                                                          | BK-Z-12/5                              |
|                                            |                                                                                                 | M12-4                                                  |                                                        | ■                                            |                                                   |                                                 | 4,0 ... 6,0                                                     | 0,75                           |                                                                                                          | BK-W-12                                |
|                                            |                                                                                                 | M12-5                                                  |                                                        |                                              |                                                   |                                                 |                                                                 |                                |                                                                                                          | BK-W-12/5                              |

## Adapterstecker Adapter connectors

- Metallgewinde drehbar
  - 3- auf 4-polig
  - 4- auf 3-polig
  - Hohe Schutzart bis IP 67
- Turnable metal screw
  - 3 or 4 pin
  - 4 or 3 pin
  - High protection class by IP 67



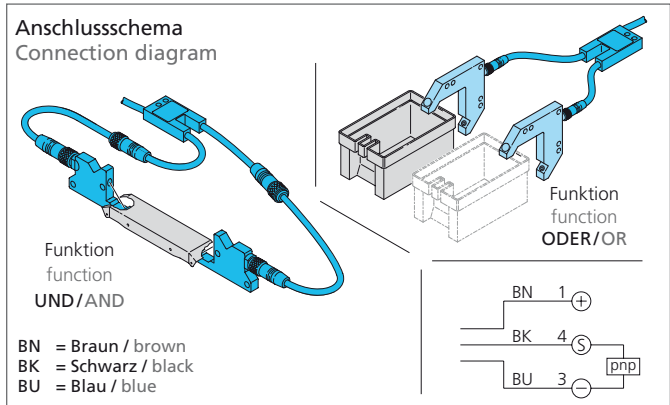
| Kupplung / Polzahl<br>Coupling / Nos. pins |  |  |  |  |       |  |  |  |  | Anschlusschema<br>Connection diagram |       |  |  |  |                                        |     |            |  |  | Stecker / Polzahl<br>Connector / Nos. pins |  |  |  |  |  |  |  |  |  | Max. Spannungsbereich (V)<br>Max. voltage range (V) |  |  |  |  |  |  |  |  |  | Max. Strombelastung (A)<br>Max. Current capacity (A) |  |  |  |  |  |  |  |  |  |
|--------------------------------------------|--|--|--|--|-------|--|--|--|--|--------------------------------------|-------|--|--|--|----------------------------------------|-----|------------|--|--|--------------------------------------------|--|--|--|--|--|--|--|--|--|-----------------------------------------------------|--|--|--|--|--|--|--|--|--|------------------------------------------------------|--|--|--|--|--|--|--|--|--|
| Adapterstecker<br>Adapter connectors       |  |  |  |  |       |  |  |  |  |                                      |       |  |  |  | Bestelltabelle<br>Purchase order table |     |            |  |  |                                            |  |  |  |  |  |  |  |  |  |                                                     |  |  |  |  |  |  |  |  |  |                                                      |  |  |  |  |  |  |  |  |  |
|                                            |  |  |  |  | M8-3  |  |  |  |  |                                      | M8-4  |  |  |  | 24                                     | 4,0 | M8K3/M8S4  |  |  |                                            |  |  |  |  |  |  |  |  |  |                                                     |  |  |  |  |  |  |  |  |  |                                                      |  |  |  |  |  |  |  |  |  |
|                                            |  |  |  |  | M8-4  |  |  |  |  |                                      | M8-3  |  |  |  | 24                                     | 4,0 | M8K4/M8S3  |  |  |                                            |  |  |  |  |  |  |  |  |  |                                                     |  |  |  |  |  |  |  |  |  |                                                      |  |  |  |  |  |  |  |  |  |
|                                            |  |  |  |  | M8-3  |  |  |  |  |                                      | M12-3 |  |  |  | 24                                     | 4,0 | M8K/M12S   |  |  |                                            |  |  |  |  |  |  |  |  |  |                                                     |  |  |  |  |  |  |  |  |  |                                                      |  |  |  |  |  |  |  |  |  |
|                                            |  |  |  |  | M8-4  |  |  |  |  |                                      | M12-4 |  |  |  | 24                                     | 4,0 | M8K/M12S/4 |  |  |                                            |  |  |  |  |  |  |  |  |  |                                                     |  |  |  |  |  |  |  |  |  |                                                      |  |  |  |  |  |  |  |  |  |
|                                            |  |  |  |  | M12-3 |  |  |  |  |                                      | M8-3  |  |  |  | 24                                     | 4,0 | M12K/M8S   |  |  |                                            |  |  |  |  |  |  |  |  |  |                                                     |  |  |  |  |  |  |  |  |  |                                                      |  |  |  |  |  |  |  |  |  |
|                                            |  |  |  |  | M12-4 |  |  |  |  |                                      | M8-4  |  |  |  | 24                                     | 4,0 | M12K/M8S/4 |  |  |                                            |  |  |  |  |  |  |  |  |  |                                                     |  |  |  |  |  |  |  |  |  |                                                      |  |  |  |  |  |  |  |  |  |
|                                            |  |  |  |  |       |  |  |  |  |                                      |       |  |  |  |                                        |     |            |  |  |                                            |  |  |  |  |  |  |  |  |  |                                                     |  |  |  |  |  |  |  |  |  |                                                      |  |  |  |  |  |  |  |  |  |
|                                            |  |  |  |  |       |  |  |  |  |                                      |       |  |  |  |                                        |     |            |  |  |                                            |  |  |  |  |  |  |  |  |  |                                                     |  |  |  |  |  |  |  |  |  |                                                      |  |  |  |  |  |  |  |  |  |
|                                            |  |  |  |  |       |  |  |  |  |                                      |       |  |  |  |                                        |     |            |  |  |                                            |  |  |  |  |  |  |  |  |  |                                                     |  |  |  |  |  |  |  |  |  |                                                      |  |  |  |  |  |  |  |  |  |
|                                            |  |  |  |  |       |  |  |  |  |                                      |       |  |  |  |                                        |     |            |  |  |                                            |  |  |  |  |  |  |  |  |  |                                                     |  |  |  |  |  |  |  |  |  |                                                      |  |  |  |  |  |  |  |  |  |

Area with horizontal lines for taking notes.

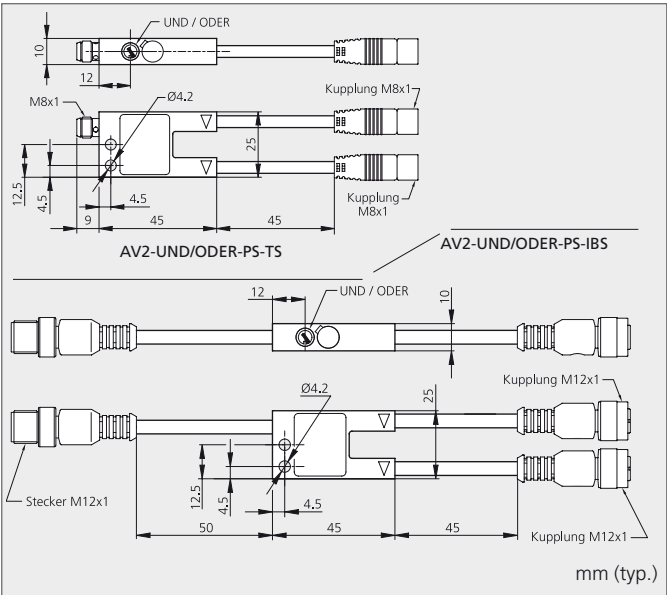


# Logikverteiler 2-fach Logic distributor, 2 options

- Für alle gängigen Sensoren geeignet
  - Schaltfunktion UND/ODER umschaltbar
  - Kompakte Bauweise
  - Schnell und einfach nachrüstbar
  - Hoher Temperatureinsatzbereich
  - Hohe Schutzart
- Suitable for all kinds of standard sensors
  - Switching function AND/OR switchable
  - Compact construction
  - Simple and fast implementation of other functions
  - High temperature resistance
  - High protection class



## AV2-UND/ODER...



| Technische Daten (typ.) | Technical data (typ.)      | +20 °C, 24 VDC                                                          |                                |
|-------------------------|----------------------------|-------------------------------------------------------------------------|--------------------------------|
| Betriebsspannung        | Service voltage            | 10 ... 35 VDC                                                           | 10 ... 35 VDC                  |
| Ausgang                 | Output                     | pnp, 200 mA, UND/ODER / AND/OR                                          | pnp, 200 mA, UND/ODER / AND/OR |
| Eigenstromaufnahme      | Internal power consumption | 14 mA                                                                   | 14 mA                          |
| Mindestimpulslänge      | Min. pulse stretching      | 0,06 ms                                                                 | 0,06 ms                        |
| Schaltfrequenz          | Switching frequency        | 6.000 Hz                                                                | 6.000 Hz                       |
| Umgebungstemperatur     | Ambient temperature        | -25 ... +70 °C                                                          | -25 ... +70 °C                 |
| Schutzart               | Protection class           | IP 67                                                                   | IP 67                          |
| Gehäusematerial         | Casing material            | Zinkdruckguss, schwarz lackiert / die-cast zinc, black lacquered finish |                                |

| Bestelltablelle      | Purchase order table | Typ / Model             |                          |
|----------------------|----------------------|-------------------------|--------------------------|
| Ausgang              | Output               | Kupplung / Stecker M8   | Kupplung / Stecker M12   |
|                      |                      | Coupling / Connector M8 | Coupling / Connector M12 |
| UND/ODER umschaltbar | AND/OR switchable    | AV2-UND/ODER-PS-TS      | AV2-UND/ODER-PS-IBS      |

|                                  |                                    |        |        |
|----------------------------------|------------------------------------|--------|--------|
| Anschlusskabel (sep. Datenblatt) | Connecting cable (sep. data-sheet) | TK ... | VK ... |
|----------------------------------|------------------------------------|--------|--------|



## Logikverteiler M8, 4-fach Logic distributor M8, 4 options

### Integrierte Schaltfunktion 4-fach UND + ODER

- 4 Sensoreingänge, M8/3-polig
- 1 Ausgang, M12/8-polig
- 4 LEDs für Schaltzustandsanzeige
- Robustes Gehäuse, Schutzart IP 67

### Integrated switching function with quadruple AND/OR logic

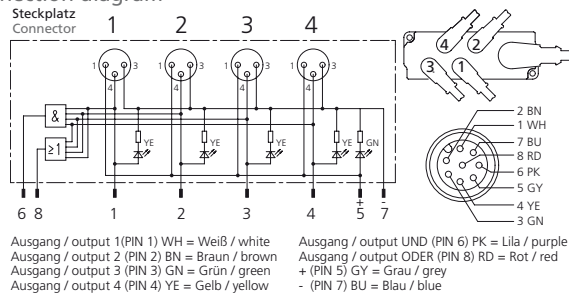
- 4 M8/3-pin sensor inputs
- 1 M12/8-pole output
- 4 LEDs for easy status display
- Robust casing, IP 67 protection class

di-soric Logikverteiler  
AV4-UND/ODER mit integrierten  
Schaltfunktionen 4-fach UND  
und ODER. Die Schaltfunktion  
4-fach UND wird durch Belegen  
der verbleibenden Anschlussbuchsen  
mit Blindstecker BS-Z-8-UND  
ermöglicht.

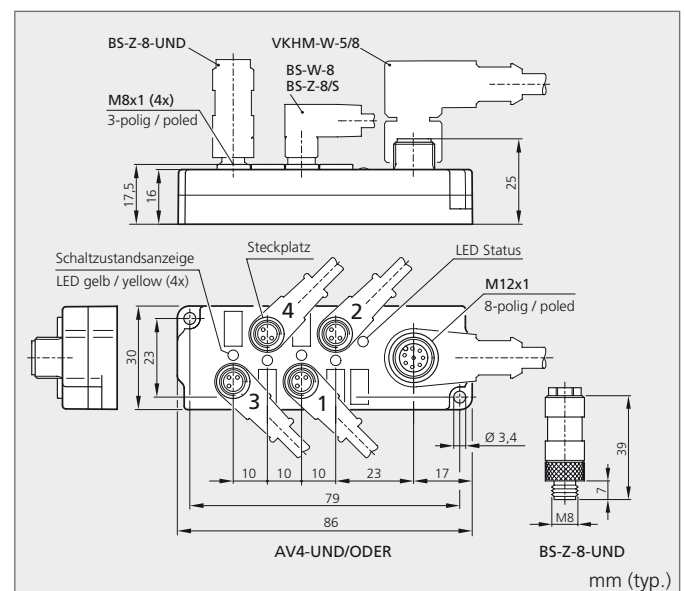
di-soric logic distributor  
AV4-AND/OR with integrated switch-  
ing function provides quadruple  
AND/OR logic. Switching function  
with quadruple AND logic is  
enabled by connecting the optional  
BS-Z-8-AND connector in the open  
connection socket.

#### Anschlussschema

#### Connection diagram



## AV4-UND/ODER



| Technische Daten (typ.)     | Technical data (typ.)            | +20 °C, 24VDC                                                                                                                          |
|-----------------------------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Anschlssspannung            | Supply voltage                   | 10 ... 30V                                                                                                                             |
| Strombelastbarkeit UND/ODER | Current-carrying capacity And/or | je 300 mA / Logikkontakt / Logic contact                                                                                               |
| Ausgang                     | Output                           | pnp 4x, pnp-UND 1x, pnp-ODER 1x                                                                                                        |
| Betriebsspannungsanzeige    | Service volage                   | LED grün / green                                                                                                                       |
| Schaltzustandsanzeige       | Switching status                 | LED gelb / yellow (4x)                                                                                                                 |
| Umgebungstemperatur         | Ambient temperature              | -30 ... +80 °C                                                                                                                         |
| Schutzart                   | Protection class                 | IP 67 (bei Belegung aller Steckplätze und Anzugsmoment = 0,4 Nm)<br>IP 67 (with all sockets occupied and a tightening torque = 0,4 Nm) |
| Gehäusematerial             | Casing material                  | Kunststoff, FPM (Viton)                                                                                                                |

| Bestelltable        | Purchase order table          | Typ / Model  |
|---------------------|-------------------------------|--------------|
| Logikverteiler      | Logic distributor             | AV4-UND/ODER |
| UND-M8 Blindstecker | And-M8 open connection socket | BS-Z-8-UND   |

|                       |                       |            |
|-----------------------|-----------------------|------------|
| Anschlussleitung 5,0m | Connecting cable 5,0m | VKHM-W-5/8 |
|-----------------------|-----------------------|------------|

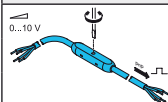
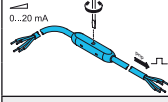
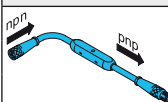
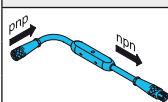
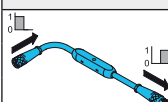
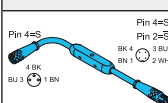
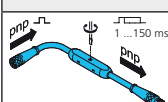
- Für alle gängigen Sensoren geeignet
- Kompakte Bauweise
- Schnell und einfach nachrüstbar
- Hoher Temperatureinsatzbereich
- LED-Anzeige für Status und Schaltausgang

- Suitable for all kind of standard sensors
- Compact construction
- Simple and fast implementation of other functions
- High temperature resistance
- LED indication of status and output signal

mm (typ.)

| Technische Daten (typ.) | Technical data (typ.)      | +20°C, 24VDC                                                              |
|-------------------------|----------------------------|---------------------------------------------------------------------------|
| Betriebsspannung        | Service voltage            | 10 ... 35 V DC                                                            |
| Strombelastbarkeit      | Current carrying capacity  | 200 mA, kurzschlussfest / short-circuit-proof                             |
| Eigenstromaufnahme      | Internal power consumption | 20 mA                                                                     |
| Umgebungstemperatur     | Ambient temperature        | -25 ... +70°C                                                             |
| Schutzart               | Protection class           | IP 67                                                                     |
| Schutzklasse            | Protection degree          | III, Betrieb an Schutzkleinspannung / Operation on protective low voltage |

|                                                                                     | Bauform<br>(siehe gegenüberliegende Seite)<br>Size (see opposite page) | Mindestimpulslänge / Min. pulse stretching (ms) | Eingangsimpedanz (Ohm)<br>Input impedance (Ohm) | Eingang / Input     | Ausgang / Output | Schaltfrequenz / Operating frequency (Hz) | Kupplung / Coupling                   | Stecker / Connector                   |                                                |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------|---------------------|------------------|-------------------------------------------|---------------------------------------|---------------------------------------|------------------------------------------------|
| <b>pnp Schwellwertschalter / pnp threshold switch</b>                               |                                                                        |                                                 |                                                 |                     |                  |                                           |                                       |                                       | <b>Bestelltabelle<br/>Purchase order table</b> |
|  | 1.1                                                                    | 12.000                                          | pnp, 0 ... 10V                                  | pnp (2x)            | <3.500 Hz        | A                                         |                                       |                                       | <b>SWS 0-10V/PSK</b>                           |
|  | 1.1                                                                    | 240                                             | pnp, 0 ... 20 mA                                | pnp (2x)            | <3.500 Hz        | A                                         |                                       |                                       | <b>SWS 0-20mA/PSK</b>                          |
| <b>nnp ⇌ pnp-Umsetzer / nnp ⇌ pnp converter</b>                                     |                                                                        |                                                 |                                                 |                     |                  |                                           |                                       |                                       |                                                |
|  | 1.2<br>1.3                                                             | 0,1                                             |                                                 | pnp                 | <5.000 Hz        | B<br>D                                    | M8/3-polig / pin<br>M12/3-polig / pin | M8/3-polig / pin<br>M12/3-polig / pin | <b>TKHM-Z/TSM-Z/UN<br/>VKHM-Z/VSM-Z/UN</b>     |
| <b>pnp ⇌ nnp-Umsetzer / pnp ⇌ nnp converter</b>                                     |                                                                        |                                                 |                                                 |                     |                  |                                           |                                       |                                       |                                                |
|  | 1.2<br>1.3                                                             | 0,1                                             |                                                 | nnp                 | <5.000 Hz        | B<br>D                                    | M8/3-polig / pin<br>M12/3-polig / pin | M8/3-polig / pin<br>M12/3-polig / pin | <b>TKHM-Z/TSM-Z/U<br/>VKHM-Z/VSM-Z/U</b>       |
| <b>pnp Invertierer / pnp signal inversion</b>                                       |                                                                        |                                                 |                                                 |                     |                  |                                           |                                       |                                       |                                                |
|  | 1.2<br>1.3                                                             | 0,1                                             |                                                 | pnp                 | <3.500 Hz        | B<br>D                                    | M8/3-polig / pin<br>M12/3-polig / pin | M8/3-polig / pin<br>M12/3-polig / pin | <b>TKHM-Z/TSM-Z/I<br/>VKHM-Z/VSM-Z/I</b>       |
| <b>pnp Antivalenzer / pnp antivalent signal</b>                                     |                                                                        |                                                 |                                                 |                     |                  |                                           |                                       |                                       |                                                |
|  | 1.2<br>1.3                                                             | 0,1                                             |                                                 | pnp                 | <3.500 Hz        | C<br>E                                    | M8/3-polig / pin<br>M12/3-polig / pin | M8/4-polig / pin<br>M12/4-polig / pin | <b>TKHM-Z/TSM-Z/P4<br/>VKHM-Z/VSM-Z/P4</b>     |
| <b>pnp Impulsverlängerer / pnp pulse stretching</b>                                 |                                                                        |                                                 |                                                 |                     |                  |                                           |                                       |                                       |                                                |
|  | 1.2<br>1.3                                                             | 0,1                                             |                                                 | pnp<br>1 ... 150 ms | <500 Hz          | B<br>D                                    | M8/3-polig / pin<br>M12/3-polig / pin | M8/3-polig / pin<br>M12/3-polig / pin | <b>TKHM-Z/TSM-Z/T<br/>VKHM-Z/VSM-Z/T</b>       |

# Funktionsmodule

## Function module

### Funktionsmodul FM 70-1 ...

#### Function module FM 70-1 ...

- Zum Einstellen der Sendeleistung
- Zum Aktivieren der Testfunktion
- 4-Gang-Potentiometer
- Schutzart IP 67

- Adjusting the transmit power
- Activating the test function

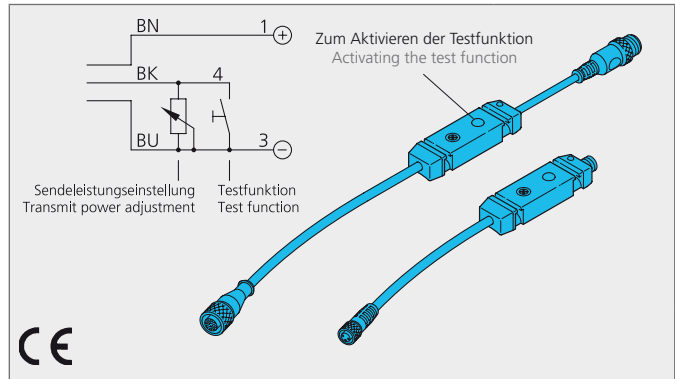
- 4-turn potentiometer
- Protection class IP 67

Für Typen / for models

OSP 12 ...

OSPQ 12 ...

OSP 50 ... IP 69K ... <sup>1)</sup>



| Bestelltabelle | Purchase order table | Typ / Model |
|----------------|----------------------|-------------|
| M8             | M8                   | FM 70-1-TS  |
| M12            | M12                  | FM 70-1-BS  |

### Funktionsmodul FM 70-2 ...

#### Function module FM 70-2 ...

- Zum Einstellen der Sendeleistung
- 4-Gang-Potentiometer
- Schutzart IP 67

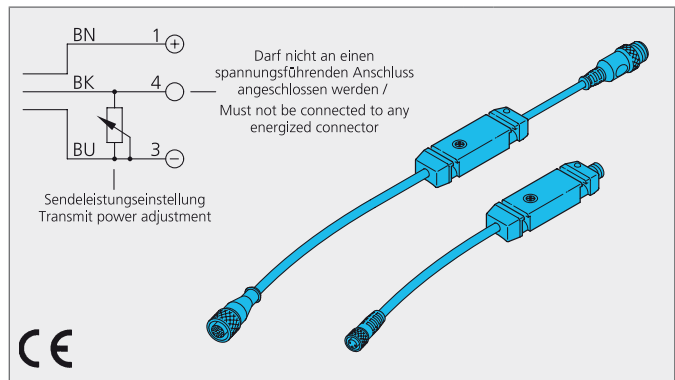
- Adjusting the transmit power
- 4-turn potentiometer
- Protection class IP 67

Für Typen / for models

OSP 12 ...

OSPQ 12 ...

OSP 50 ... IP 69K ... <sup>1)</sup>



| Bestelltabelle | Purchase order table | Typ / Model |
|----------------|----------------------|-------------|
| M8             | M8                   | FM 70-2-TS  |
| M12            | M12                  | FM 70-2-BS  |

<sup>1)</sup> Bei Betrieb mit Einweglichtschranke OSP 50 ... IP 69K ... ergibt sich die Gesamtschutzart IP 67  
During operation with through beam sensor OSP 50 ... IP 69K ... protection class IP 67 is given, only

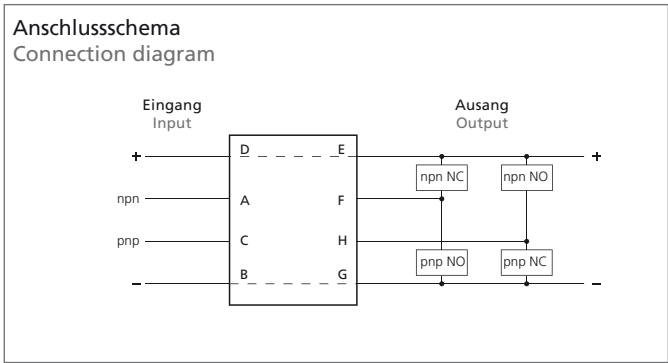
Area with horizontal lines for taking notes.

# Sensorklemme

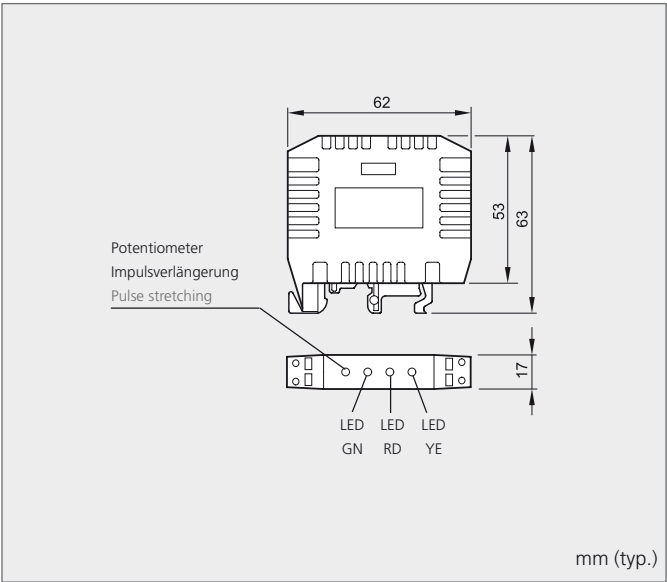
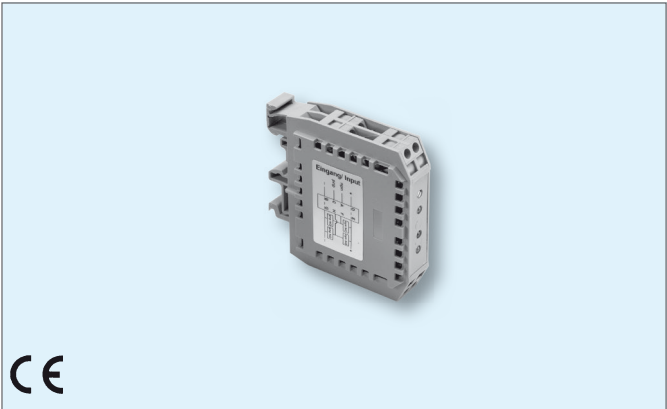
## Sensor clamp

- Eingang:
  - pnp und npn
- Ausgangsfunktionen:
  - pnp Schließer
  - pnp Öffner
  - nnp Schließer
  - nnp Öffner
- Impulsverlängerung
- Stabiles Gehäuse
- Befestigung an Hutschiene

- Input:
  - pnp and npn
- Output:
  - pnp, NO
  - pnp, NC
  - nnp, NO
  - nnp, NC
- Pulse stretching adjustable
- Stable casing
- DIN-rail mountable



### SK-TPN ...



| Technische Daten (typ.) | Technical data (typ.)      | +20°C, 24 V DC                       |                                    |
|-------------------------|----------------------------|--------------------------------------|------------------------------------|
| Betriebsspannung        | Service voltage            | 10 ... 30 VDC                        |                                    |
| Eigenstromaufnahme      | Internal power consumption | 22 mA                                |                                    |
| Schaltausgang           | Switching output           | Transistor pnp und / and npn, 100 mA |                                    |
| Schaltfunktion          | Operating function         | NO und / and NC                      |                                    |
| Kurzschlusschutz        | Short-circuit protection   | Nein / no                            |                                    |
| Schaltfrequenz          | Operating frequency        | < 20.000 Hz                          |                                    |
| Funktionsanzeige        | Functional display         | LED grün / green (GN):               | Betriebsspannung / service voltage |
|                         |                            | LED rot / red (RD):                  | pnp, NO / npn, NC                  |
|                         |                            | LED gelb / yellow (YE):              | pnp, NC / npn, NO                  |

| Bestelltabelle     | Purchase order table | Typ / Model |
|--------------------|----------------------|-------------|
| Impulsverlängerung | Pulse stretching     |             |
| 0,01 ... 0,1 Sek.  | 0,01 ... 0,1 sec.    | SK-TPN-0.1  |
| 0,1 ... 1 Sek.     | 0,1 ... 1 sec.       | SK-TPN-1    |
| 1 ... 10 Sek.      | 1 ... 10 sec.        | SK-TPN-10   |

## Netzteil Power supply



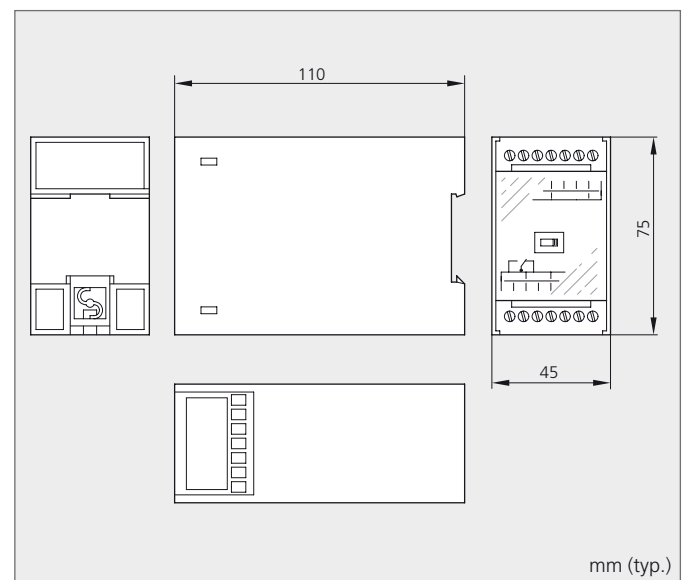
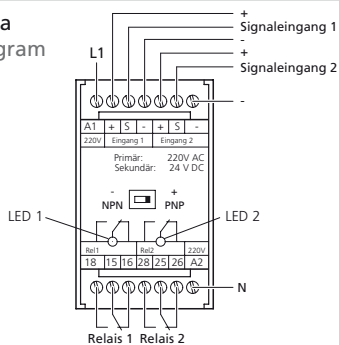
### NSP-2001

- Stabilisierte Spannungsversorgung
- DC Ausgang Dauerkurzschlussfest
- 2 LED-Anzeigen für Schaltzustand
- 2 pnp oder npn Eingänge umschaltbar
- Stabilized voltage supply
- DC output, permanently short circuit proof
- 2-LED display for the switch contact state
- 2 pnp or npn input, switchable

Mit dem di-soric Netzteil NSP-2001 wird die Netzspannung von 230 V AC auf 24V DC transformiert, gleichgerichtet, gesiebt und stabilisiert. Über die zwei Signaleingänge S können die beiden eingebauten Ausgangsrelais angesteuert werden.

Using the di-soric power supply NSP-2001 the supply voltage will be transformed from 230 V AC to 24V DC, demodulated, screened and stabilized. Through the two signal inputs S, both build-in output relays can be triggered.

Anschlusschema  
Connection diagram



| Technische Daten (typ.) | Technical data (typ.)       | +20 °C                                              |
|-------------------------|-----------------------------|-----------------------------------------------------|
| Anschlussspannung       | Supply voltage              | 230 V AC $\pm$ 10 %, 50/60 Hz                       |
| Ausgangsspannung        | Output voltage              | 2 x 24 V DC                                         |
| Strombelastbarkeit      | Current-carrying capacity   | 200 mA gesamt / in all                              |
| Schaltleistung Relais   | Switching capacity of relay | 250 V AC, 1,0 A / 125 V AC, 10 A                    |
| Schaltfrequenz          | Switching frequency         | 10 Hz                                               |
| Funktionsanzeige        | Function display            | LED, (rot, Relais angezogen / red, relay at work)   |
| Umgebungstemperatur     | Ambient temperature         | 0 ... +50 °C                                        |
| Anschlussklemmen        | Terminal clamp              | bis 2,5 mm <sup>2</sup>                             |
| Schutzart               | Protection class            | IP 20                                               |
| Gehäusematerial         | Casing material             | Schlagfester Kunststoff / impact resistant plastics |

| Bestelltabelle | Purchase order table | Typ / Model |
|----------------|----------------------|-------------|
|                |                      | NSP-2001    |

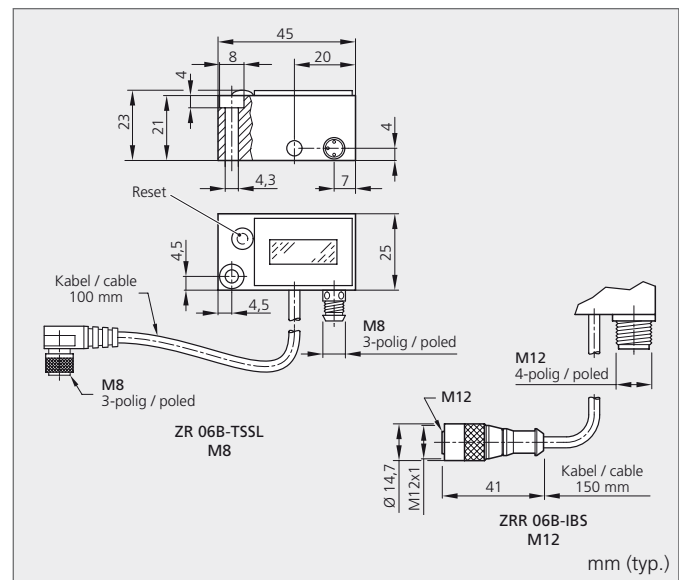
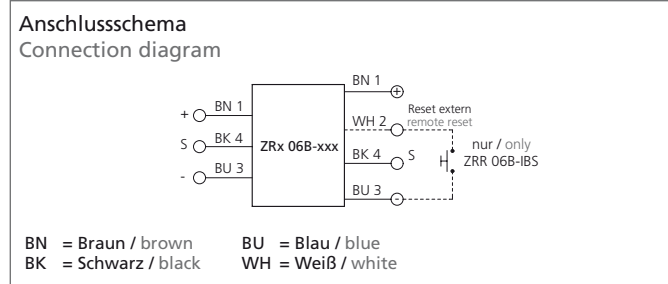


## Zählermodul mit Resetfunktion

### Counting module with reset function

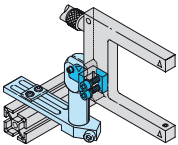
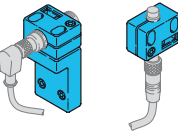
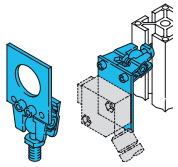
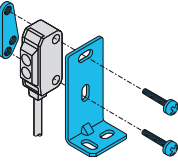
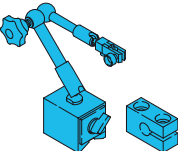
- LCD Anzeige 6-stellig
  - Schnelle und einfache Montage direkt am Sensor
  - Steckbar, ohne Verdrahtungsaufwand
  - Langfristige Zählwertspeicherung durch Pufferbatterie
  - Reset über Taste oder Anschluss
  - Robustes Metallgehäuse
- 
- 6 lines LCD display
  - Quick and simple mounting directly on the sensor
  - Pluggable without any wiring (work)
  - Long-term storage of values thanks to back-up battery
  - Reset via key or connection
  - Durable metal casing

### ZRx 06B ...



| Technische Daten (typ.)       | Technical data (typ.)       | +20°C, 24 VDC                                           |                           |
|-------------------------------|-----------------------------|---------------------------------------------------------|---------------------------|
| Betriebsspannung              | Service voltage             | 10 ... 35 VDC                                           |                           |
| Anzeige                       | Display                     | LCD-Anzeige, 6-stellig / 6 lines LCD display            |                           |
| Zählerrücksetzung             | Reset of counter            | Reset-Taste /                                           | Reset-Taste, Fern Reset / |
|                               |                             | Reset key                                               | Reset key, remote reset   |
| Eigenstromaufnahme            | Internal power consumption  | 3 mA                                                    |                           |
| Eingang                       | Input                       | pnp/npn                                                 |                           |
| Zählfrequenz                  | Counting frequency          | 10.000 Hz                                               |                           |
| Umgebungstemperatur           | Ambient temperature         | -10 ... +60 °C                                          |                           |
| Anschluss                     | Connection                  | M8/3-polig / M8/3-pin                                   | M12/4-polig / M12/4-pin   |
| Anzeige Schaltausgang         | Display output              | LED, gelb / yellow                                      |                           |
| Schutzart                     | Protection class            | IP 40                                                   |                           |
| Isolationsspannungsfestigkeit | Isulation voltage endurance | 500V                                                    |                           |
| Gehäusematerial               | Casing material             | Aluminium, schwarz eloxiert / aluminium, black anodized |                           |

| Bestelltabelle                   | Purchase order table               | Typ / Model | Typ / Model |
|----------------------------------|------------------------------------|-------------|-------------|
| Steckverbinder M8                | Connector M8                       | ZR 06B-TSSL |             |
| Steckverbinder M12               | Connector M12                      |             | ZRR 06B-IBS |
| Anschlusskabel (sep. Datenblatt) | Connecting cable (sep. data-sheet) | TK ...      | VK ... /4   |

| Sensorhalter Serie A bestehend aus System- und Sensorhalter<br>Mounting bracket series A consisting of system- and sensor holder |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Seite<br>Page |
|----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
|                                                 | <p>di-soric Sensorhalteysteme wurden für alle Anwendungen in der Automationstechnik entwickelt, diverse System- und Sensorhalter ermöglichen eine individuelle Lösung Ihrer Applikationen. Die robuste Bauform gewährleistet eine zuverlässige Positionierung der Sensoren mittels Kraft- oder Formschluss.</p> <ul style="list-style-type: none"> <li>■ Stabile, kompakte Leichtbauweise in Aluminium oder Polyamid</li> <li>■ Beliebig dreh- und schwenkbar</li> <li>■ Stufenlose Positionierung und Feinjustage mittels Kraft- oder Formschluss</li> <li>■ Bei Einsatz der passenden Nutensteine kompatibel zu Strangpressprofilen namhafter Hersteller wie: <ul style="list-style-type: none"> <li>- Item, Serie 20 und 40</li> <li>- Bosch, Serie 20, 40 und 45</li> <li>- ASS, Serie L, X und JU</li> </ul> </li> </ul>                                                      | 18... 19      |
|                                                                                                                                  | <p>di-soric sensor mounting systems have been developed for all automation technology applications with a range of system and mounting brackets to enable tailor-made solutions for your applications.</p> <p>The robust construction guarantees reliable sensor positioning by means of friction or form locking.</p> <ul style="list-style-type: none"> <li>■ Sturdy, compact, lightweight construction in aluminium or polyamide</li> <li>■ Rotary and tilting as required</li> <li>■ Continuously variable positioning and precise adjustment by means of friction or form locking</li> <li>■ When using the matching sliding blocks compatible with extruded profiles from well-known manufacturers such as: <ul style="list-style-type: none"> <li>- Item, Series 20 and 40</li> <li>- Bosch, Series 20, 40 and 45</li> <li>- ASS, Series L, X and JU</li> </ul> </li> </ul> |               |
| Sensorhalter Serie B<br>Mounting bracket series B                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Seite<br>Page |
|                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 20... 21      |
| Sensorhalter Serie C<br>Mounting bracket series C                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Seite<br>Page |
|                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 22... 23      |
| Befestigungswinkel<br>Mounting bracket                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Seite<br>Page |
|                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 24... 27      |
| Magnetstativ, Taumelplatte, Klemmbock<br>Magnetic fixing device, swash plate, cross connector                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Seite<br>Page |
|                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 27... 28      |

## Systemhalter Serie A | System holder series A

[illegible]

| Sensorhalter für zylindrische Gehäusebauformen / Mounting bracket for cylindrically designed casings |  |     |  |  |    |  |           |
|------------------------------------------------------------------------------------------------------|--|-----|--|--|----|--|-----------|
|                                                                                                      |  | 4   |  |  | 10 |  | SH-4-10   |
|                                                                                                      |  | 5   |  |  | 10 |  | SH-5-10   |
|                                                                                                      |  | 6,5 |  |  | 10 |  | SH-6.5-10 |
|                                                                                                      |  | 8   |  |  | 10 |  | SH-8-10   |
|                                                                                                      |  | 12  |  |  | 10 |  | SH-12-10  |
|                                                                                                      |  | 18  |  |  | 14 |  | SH-18-14  |
|                                                                                                      |  | 30  |  |  | 20 |  | SH-30-20  |

| Halter für Auflichtbeleuchtungen / Holder for Barlights BE 1-A ... |  |  |  |  |  |  |           |
|--------------------------------------------------------------------|--|--|--|--|--|--|-----------|
|                                                                    |  |  |  |  |  |  |           |
|                                                                    |  |  |  |  |  |  |           |
|                                                                    |  |  |  |  |  |  |           |
|                                                                    |  |  |  |  |  |  |           |
|                                                                    |  |  |  |  |  |  | SH-BE 1-A |

| Halter für Auflicht- und Koaxialbeleuchtungen / Holder for Barlights and Coaxial lights BEK 1-A ... |  |  |  |  |  |  |            |
|-----------------------------------------------------------------------------------------------------|--|--|--|--|--|--|------------|
|                                                                                                     |  |  |  |  |  |  |            |
|                                                                                                     |  |  |  |  |  |  |            |
|                                                                                                     |  |  |  |  |  |  |            |
|                                                                                                     |  |  |  |  |  |  |            |
|                                                                                                     |  |  |  |  |  |  | SH-BEK 1-A |

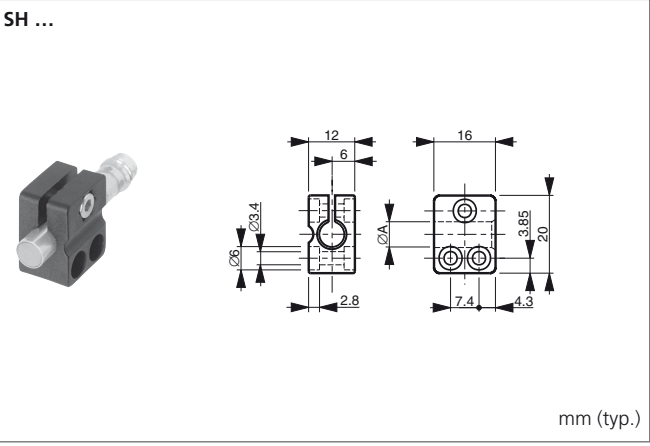
| Halter für Flächen- Punkt- und Dunkelfeldleuchtungen / Holder for Back-, Spot and Darkfield lights BEK 1 F.../BEK 1-P.../BEK 1-D 120 ... |  |  |  |  |  |  |        |
|------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--------|
|                                                                                                                                          |  |  |  |  |  |  |        |
|                                                                                                                                          |  |  |  |  |  |  |        |
|                                                                                                                                          |  |  |  |  |  |  |        |
|                                                                                                                                          |  |  |  |  |  |  |        |
|                                                                                                                                          |  |  |  |  |  |  | SH-BEK |

| Sensorhalter für Gabel-/Winkellichtschranken / Mounting bracket for fork/angled light barriers |  |  |  |  |  |  |              |
|------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--------------|
|                                                                                                |  |  |  |  |  |  |              |
|                                                                                                |  |  |  |  |  |  |              |
|                                                                                                |  |  |  |  |  |  |              |
|                                                                                                |  |  |  |  |  |  | SH-UGU-08-14 |
|                                                                                                |  |  |  |  |  |  |              |
|                                                                                                |  |  |  |  |  |  | SH-UGU-20-14 |

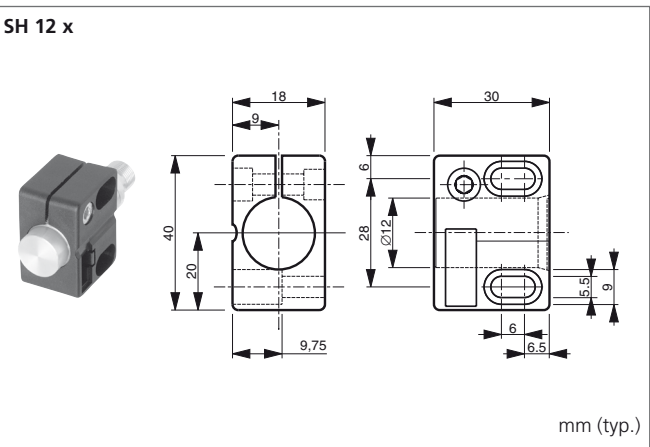
| Sensorhalter für Lichtschranken Gehäuseserie 50 / Mounting bracket for photoelectric sensors size 50 |  |  |  |  |  |  |                 |
|------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|-----------------|
|                                                                                                      |  |  |  |  |  |  |                 |
|                                                                                                      |  |  |  |  |  |  |                 |
|                                                                                                      |  |  |  |  |  |  |                 |
|                                                                                                      |  |  |  |  |  |  |                 |
|                                                                                                      |  |  |  |  |  |  | SH-S50-34-44-14 |

Sensorhalter Serie B | Mounting bracket series B

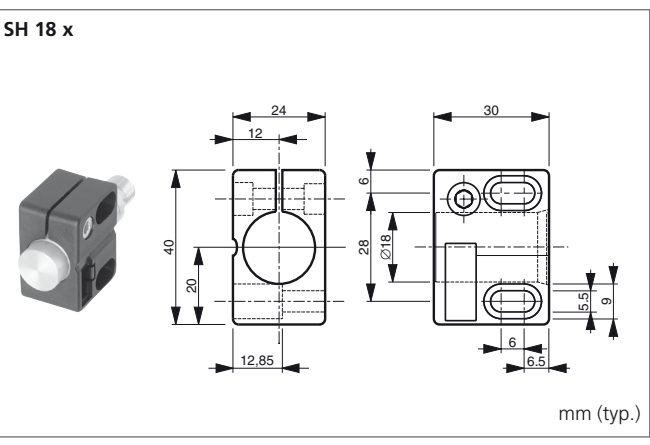
| Sensorhalter Ø3-8mm                    |     |        |
|----------------------------------------|-----|--------|
| Mounting bracket Ø3-8mm                |     |        |
| Für Typen / for models                 | A   |        |
| ohne Festanschlag / without limit stop | 3   | SH 3   |
| ohne Festanschlag / without limit stop | 4   | SH 4   |
| ohne Festanschlag / without limit stop | 5   | SH 5   |
| ohne Festanschlag / without limit stop | 6,5 | SH 6.5 |
| ohne Festanschlag / without limit stop | 8   | SH 8   |
| mit Festanschlag / with limit stop     | 8   | SH 8 A |
|                                        |     |        |
|                                        |     |        |
|                                        |     |        |



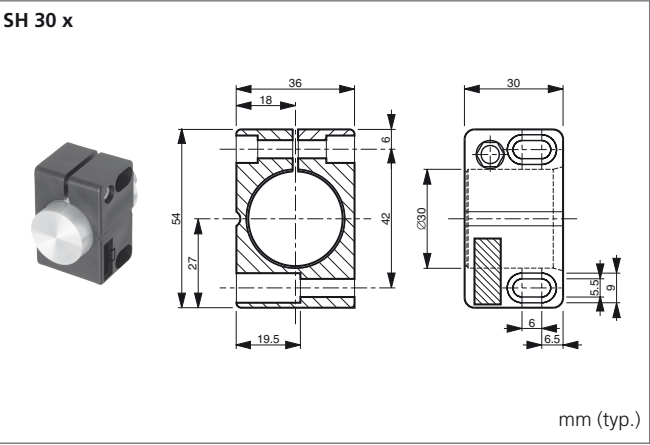
| Sensorhalter Ø12 mm                    |    |         |
|----------------------------------------|----|---------|
| Mounting bracket Ø12 mm                |    |         |
| Für Typen / for models                 | A  |         |
| ohne Festanschlag / without limit stop | 12 | SH 12   |
| mit Festanschlag / with limit stop     | 12 | SH 12 A |
|                                        |    |         |
|                                        |    |         |
|                                        |    |         |
|                                        |    |         |



| Sensorhalter Ø18 mm                    |    |         |
|----------------------------------------|----|---------|
| Mounting bracket Ø18 mm                |    |         |
| Für Typen / for models                 | A  |         |
| ohne Festanschlag / without limit stop | 18 | SH 18   |
| mit Festanschlag / with limit stop     | 18 | SH 18 A |
|                                        |    |         |
|                                        |    |         |
|                                        |    |         |
|                                        |    |         |



| Sensorhalter Ø30 mm                    |    |         |
|----------------------------------------|----|---------|
| Mounting bracket Ø30 mm                |    |         |
| Für Typen / for models                 | A  |         |
| ohne Festanschlag / without limit stop | 30 | SH 30   |
| mit Festanschlag / with limit stop     | 30 | SH 30 A |
|                                        |    |         |
|                                        |    |         |
|                                        |    |         |
|                                        |    |         |



### Unterteil horizontal für Sensorhalter

Bottom part horizontal for mounting bracket

Für Typen / for models

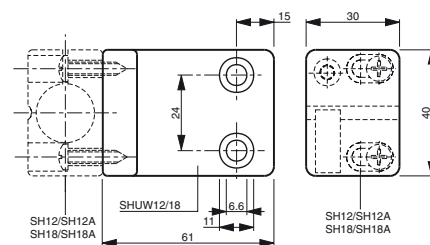
SH 12 **SHUW 12/18**

SH 12 A

SH 18

SH 18 A

### SHUW 12/18



mm (typ.)

### Unterteil vertikal für Sensorhalter

Bottom part vertical for mounting bracket

Für Typen / for models

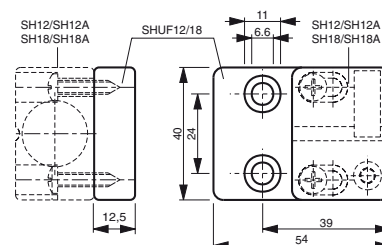
SH 12 **SHUF 12/18**

SH 12 A

SH 18

SH 18 A

### SHUF 12/18



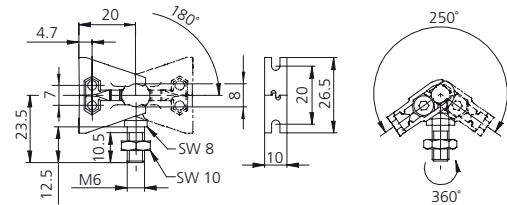
mm (typ.)

## Sensorhalter Serie C | Mounting bracket series C

- Universelle Befestigungsmöglichkeiten
- Stufenlose Justierung
- Schnelle und einfache Montage
- Zentrale Kugelgelenkarretierung
- Edelstahl / Stahl verzinkt

- Flexible fastening possibilities
- Smooth adjustment
- For a quick and easy fix and mounting of sensors
- Central positioning adjustment
- Stainless steel / steel galvanized

SHB ...



mm (typ.)

### Sensorhalter Serie M5-8-12

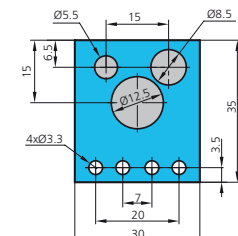
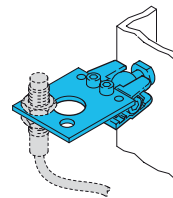
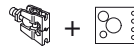
#### Mounting bracket series M5-8-12

Für Typen / for models

M5 / M8 / M12

SHB-M5-8-12

SHB-M5-8-12



mm (typ.)

### Sensorhalter Serie M18

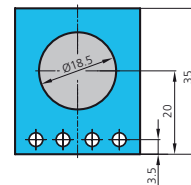
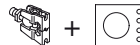
#### Mounting bracket series M18

Für Typen / for models

M18

SHB-M18

SHB-M18



mm (typ.)

### Sensorhalter Serie 30

#### Mounting bracket series 30

Für Typen / for models

OEV 30 ...

SHB-S30

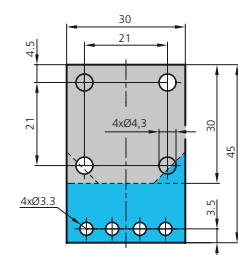
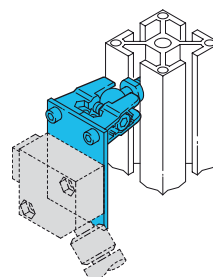
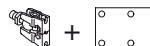
OHT 30 ...

ORV 30 ...

OSV 30 ...

OTV 30 ...

SHB-S30

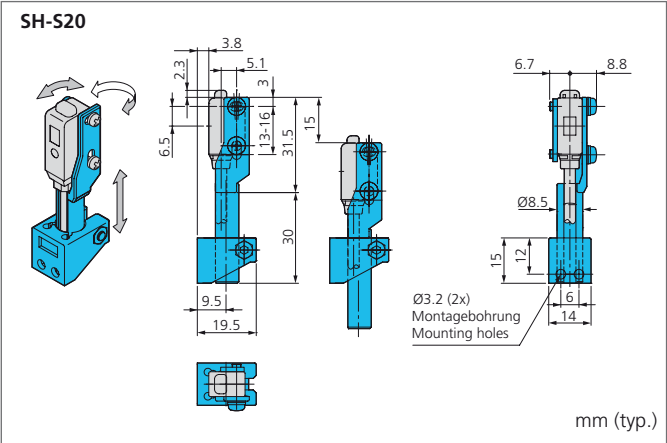


mm (typ.)

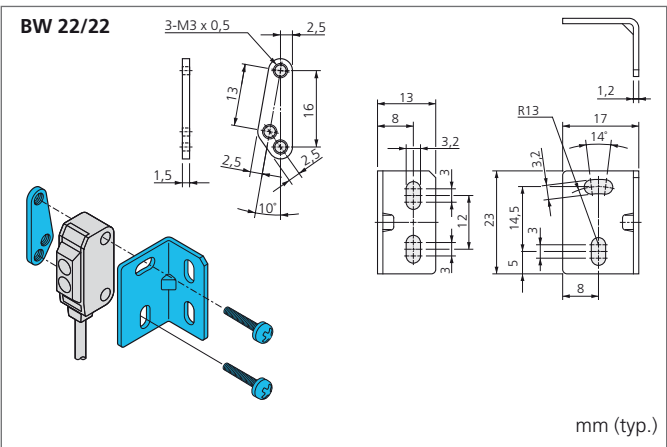




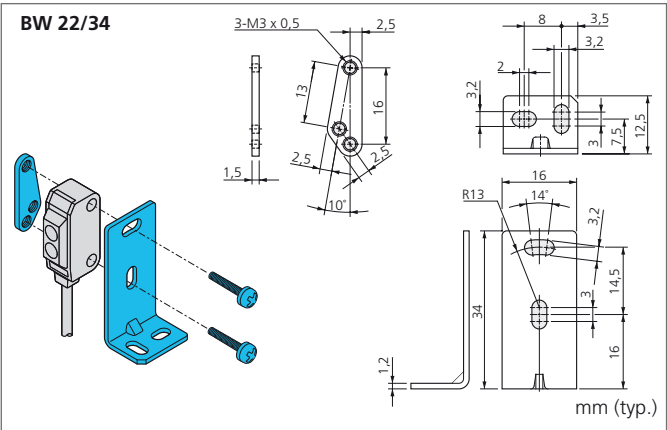
Sensorhalter, Befestigungswinkel | Sensor holder, Mounting bracket



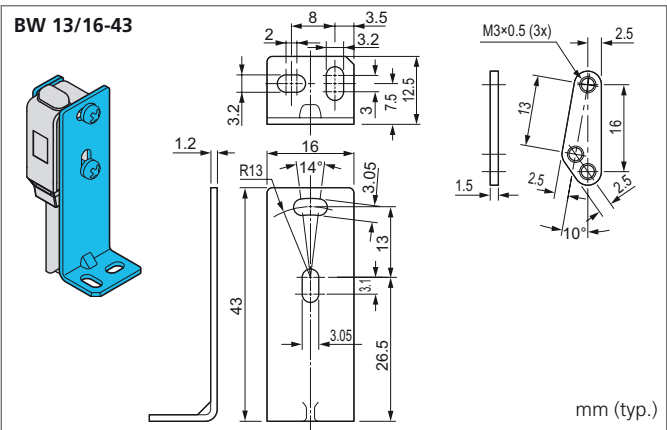
|                                                                    |        |
|--------------------------------------------------------------------|--------|
| <b>Sensorhalter für Lichtschranken Gehäuseserie 19/22 x 10 x 8</b> |        |
| <b>Sensor holder for photoelectric sensors Size 19/22 x 10 x 8</b> |        |
| Für Typen / for models                                             |        |
| OESV 19 ...                                                        | SH-S20 |
| Serie 20 / Series 20                                               |        |
|                                                                    |        |
|                                                                    |        |
|                                                                    |        |
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|                                                                    |        |



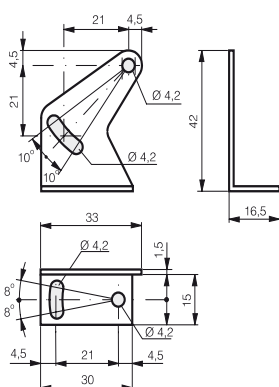
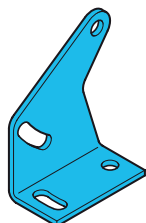
|                                                                          |          |
|--------------------------------------------------------------------------|----------|
| <b>Befestigungswinkel für Lichtschranken Gehäuseserie 19/22 x 10 x 8</b> |          |
| <b>Mounting bracket for photoelectric sensors Size 19/22 x 10 x 8</b>    |          |
| Für Typen / for models                                                   |          |
| ORV 22 ...                                                               | BW 22/22 |
| OTV 22 ...                                                               |          |
|                                                                          |          |
|                                                                          |          |
|                                                                          |          |
|                                                                          |          |
|                                                                          |          |
|                                                                          |          |



|                                                                          |          |
|--------------------------------------------------------------------------|----------|
| <b>Befestigungswinkel für Lichtschranken Gehäuseserie 19/22 x 10 x 8</b> |          |
| <b>Mounting bracket for photoelectric sensors Size 19/22 x 10 x 8</b>    |          |
| Für Typen / for models                                                   |          |
| ORV 22 ...                                                               | BW 22/34 |
| OTV 22 ...                                                               |          |
|                                                                          |          |
|                                                                          |          |
|                                                                          |          |
|                                                                          |          |
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|                                                              |  |
|--------------------------------------------------------------|--|
| <b>Befestigungswinkel für Lichtschranken Gehäuseserie 20</b> |  |
| <b>Mounting bracket for photoelectric sensors Size 20</b>    |  |
| Für Typen / for models                                       |  |
| Serie 20 / Series 20                                         |  |
| BW 13/16-43                                                  |  |
|                                                              |  |
|                                                              |  |
|                                                              |  |
|                                                              |  |
|                                                              |  |
|                                                              |  |

**BW 30**


mm (typ.)

**Befestigungswinkel für Lichtschranken Gehäuseserie 30**
**Mounting bracket for photoelectric sensors Size 30**

Für Typen / for models

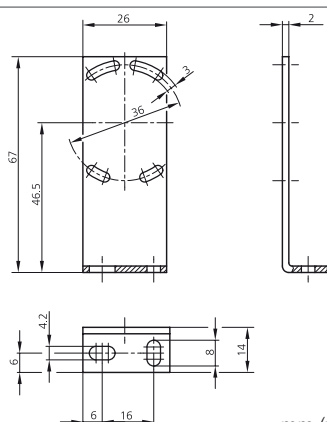
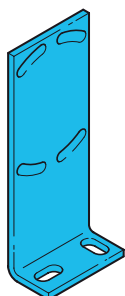
OEV 30 ... **BW 30**

OHT 30 ...

ORV 30 ...

OSV 30 ...

OTV 30 ...

**BW 40**


mm (typ.)

**Befestigungswinkel für Lichtschranken Gehäuseserie 40**
**Mounting bracket for photoelectric sensors Size 40**

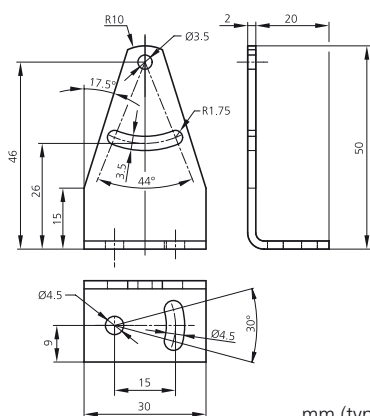
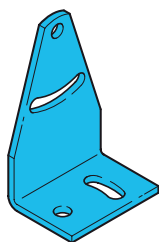
Für Typen / for models

OEV 40 ... **BW 40**

ORV 40 ...

OSV 40 ...

OTV 40 ...

**BW 41**


mm (typ.)

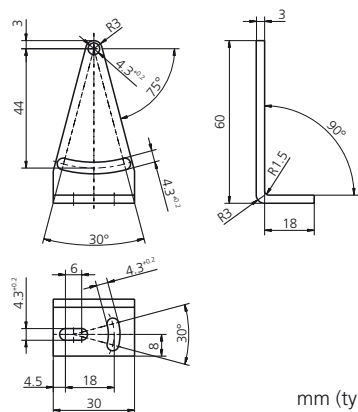
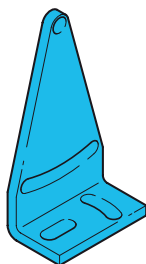
**Befestigungswinkel für Lichtschranken Gehäuseserie 40**
**Mounting bracket for photoelectric sensors Size 40**

Für Typen / for models

LRT 41 ... **BW 41**

ORT 41 ...

OTT 41 ...

**BW 50**


mm (typ.)

**Befestigungswinkel für Lichtschranken Gehäuseserie 50**
**Mounting bracket for photoelectric sensors Size 50**

Für Typen / for models

LAT 51 ... **BW 50**

LHTxx 51 ...

LRVxx 51 ...

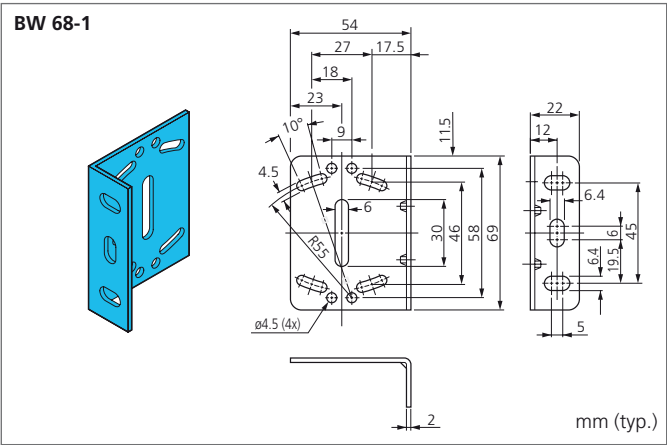
LTV 51 ...

OEVP / OSP 50 ...

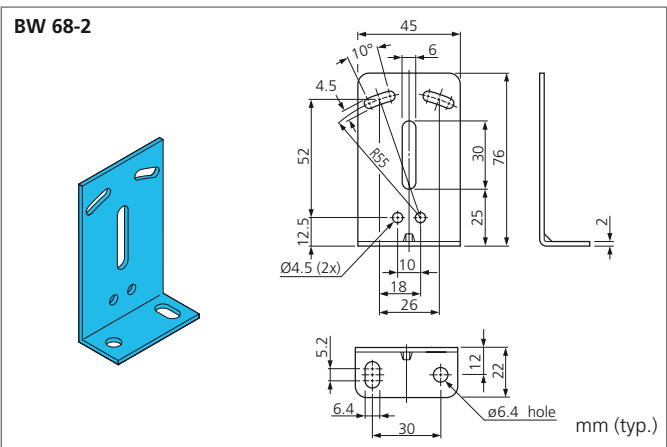
ORVxx 51 ...

OTVxx 51 ...

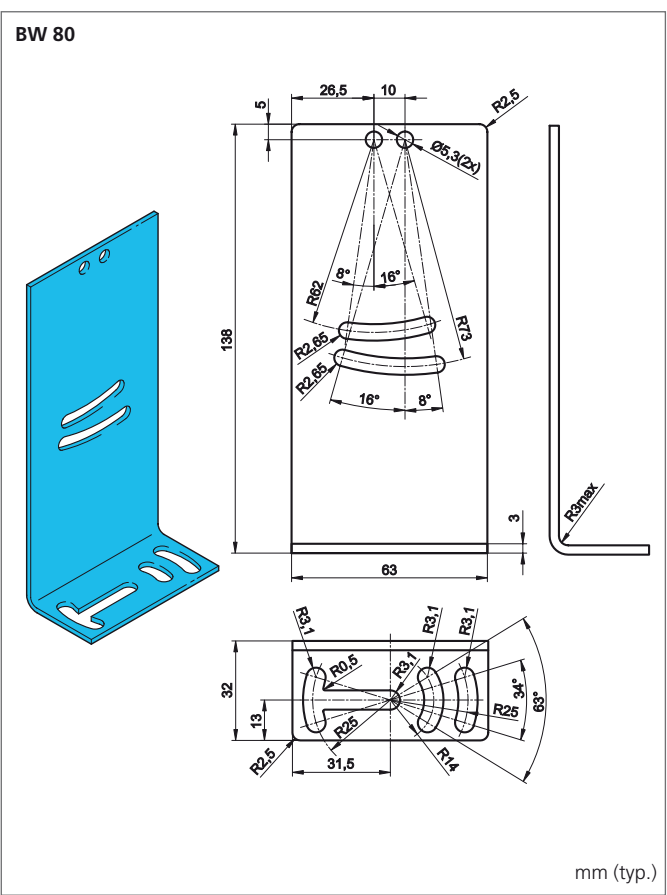
Befestigungswinkel, Montageset | Mounting bracket, Mounting set



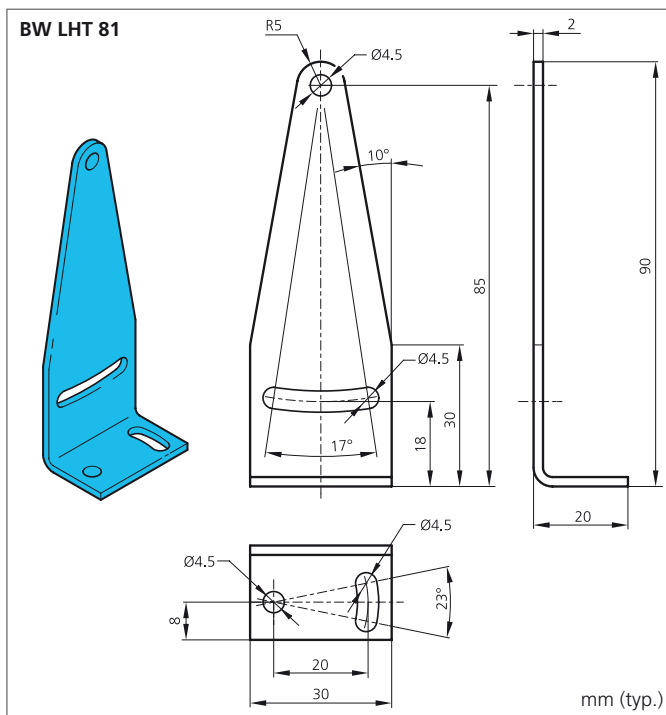
| Befestigungswinkel für Lichtschranken Gehäuseserie 68 |         |
|-------------------------------------------------------|---------|
| Mounting bracket for photoelectric sensors Size 68    |         |
| Für Typen / for models                                |         |
| OHT 68 ...                                            | BW 68-1 |
|                                                       |         |
|                                                       |         |
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|                                                       |         |
|                                                       |         |
|                                                       |         |



| Befestigungswinkel für Lichtschranken Gehäuseserie 68 |         |
|-------------------------------------------------------|---------|
| Mounting bracket for photoelectric sensors Size 68    |         |
| Für Typen / for models                                |         |
| OHT 68 ...                                            | BW 68-2 |
|                                                       |         |
|                                                       |         |
|                                                       |         |
|                                                       |         |
|                                                       |         |
|                                                       |         |
|                                                       |         |



| Befestigungswinkel für Lichtschranken Gehäuseserie 80 |       |
|-------------------------------------------------------|-------|
| Mounting bracket for photoelectric sensors Size 80    |       |
| Für Typen / for models                                |       |
| OHT 80 ...                                            | BW 80 |
| OTV 80 ...                                            |       |
| ORV 80 ...                                            |       |
|                                                       |       |
|                                                       |       |
|                                                       |       |
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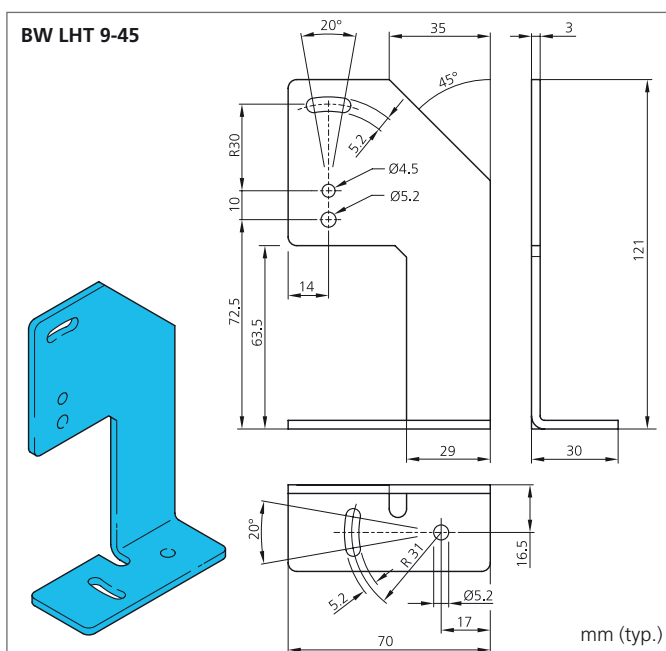
#### Befestigungswinkel für Laserlichttaster LHT 81 ...

Mounting bracket for laser diffuse reflective sensors LHT 81 ...

Für Typen / for models

LHT 81 ...

**BW LHT 81**



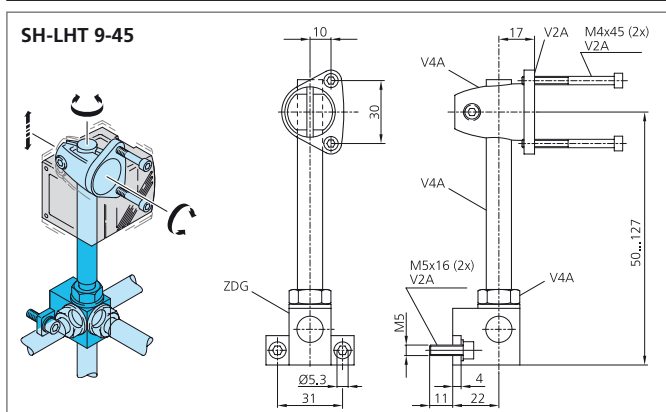
#### Befestigungswinkel für Laser-Abstandssensoren LHT 9-45 ...

Mounting bracket for Laser distance sensors LHT 9-45 ...

Für Typen / for models

LHT 9-45 ...

**BW LHT 9-45**



#### Montageset für Laser-Abstandssensoren LHT 9-45 ...

Mounting set for Laser distance sensors LHT 9-45 ...

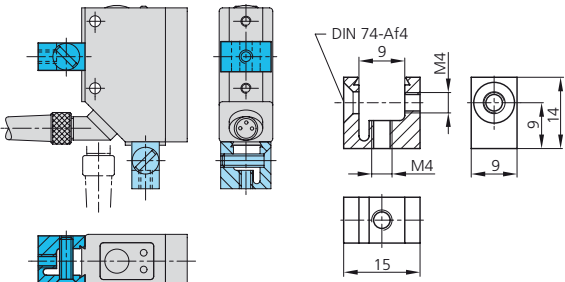
Für Typen / for models

LHT 9-45 ...

**SH-LHT 9-45**

Montagesysteme, Hilfsmittel | Assembly systems, Utilities

**Sensorhalter | Mounting bracket**



Für / for

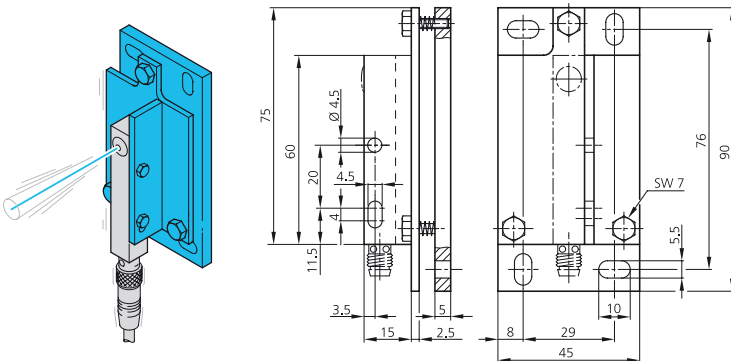
OTT 41 ...

ORT 41 ...

LRT 41 ...

**SH-S41-SN**

**Taumelplatten zur einfachen Ausrichtung von Laserlichtschranken | Swash plates for easy alignment of Laser photoelectric sensors**



Für / for

OLS/OLE Q 10 ...

OLS/OLE Q 15 ...

LHT 41 ...

LRT 41 ...

**TP1-Q90**

**Magnetstativ | Magnetic fixing device**

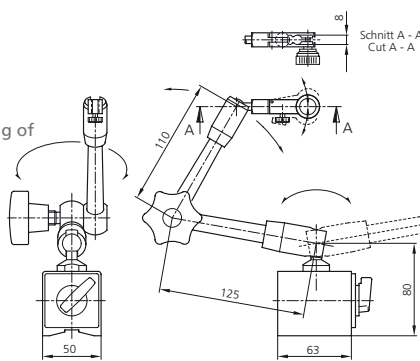
- Schnelle und einfache Montage
- Magnetische Befestigung
- Zentrale Gelenkarretierung
- Komfortable Feinjustierung

-For a quick and easy fix and mounting of sensors

-Magnetic fastening

-Central positioning adjustment

-Comfortable and precise adjustment



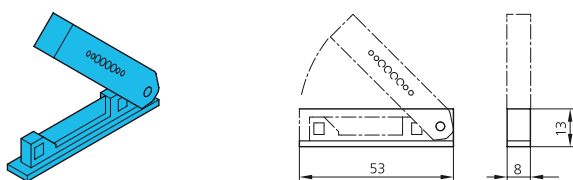
Haftkraft      Fastening force      50 kg

Aufnahmeschaft      Diameter of the fastening shaft      Ø8 mm

Gehäusematerial      Casing material      Stahl / steel

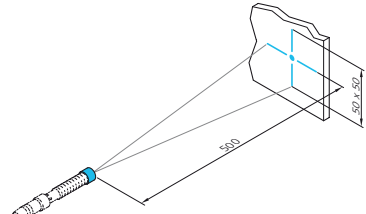
**MSH-300**

**Schneidmesser für ablängbare Kunststoff-Lichtleitkabel | Cutting tool to shorten plastic fibre-optic cables**



**SM 1**

**Vorsatzoptik-Laserkreuz als Aufsatz an OLS 12 V ... | Laser-cross optics as-attachment for OLS 12 V ...**



**LK 50/500**

## Sensortester | Sensor tester



- Batteriebetrieb
- Für pnp- und npn-Geräte
- Optisches und akustisches Signal
- Kleine Bauform
- Schnellspannbuchsen

- Battery operation
- For pnp and npn devices
- Visual and acoustic signal
- Compact design
- Quick-action sockets

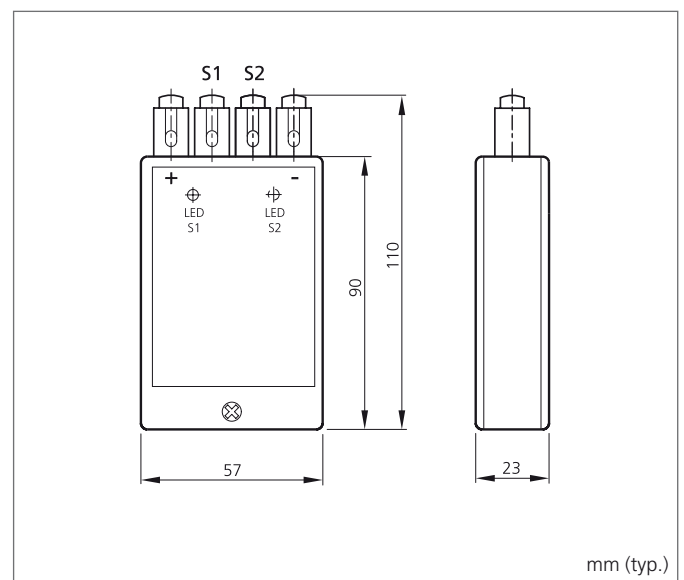
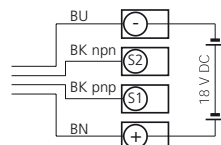


Der di-soric Sensortester wurde entwickelt, um Sensoren mit Gleichspannungsversorgung schnell und einfach auf Funktion zu prüfen. Weiterhin zeigt der Sensortester an, ob es sich um einen Ausgang mit Schließer- oder Öffnerfunktion handelt. Das Ausgangssignal des Sensortesters wird sowohl optisch als auch akustisch signalisiert. Durch seine handliche Bauform ist der Sensortester immer griffbereit.

The di-soric Sensor tester has been developed to enable quick and straight-forward functional testing of sensors with DC-voltage supply. Moreover, the Sensor tester indicates whether the test object performs a normally open or normally closed function. The sensor's output signal is emitted visually and acoustically. Due to its compact design, this handy Sensor tester is always ready to use.

### Anschlusschema Connection diagram

BN = Braun / brown  
BK = Schwarz / black  
BU = Blau / blue  
WH = Weiß / white

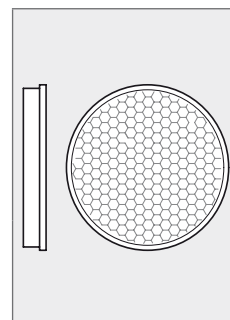
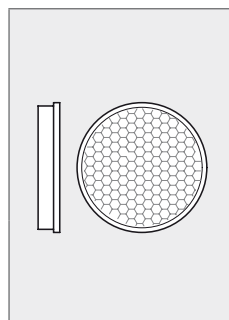
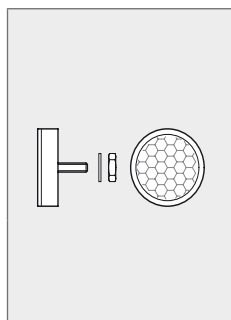
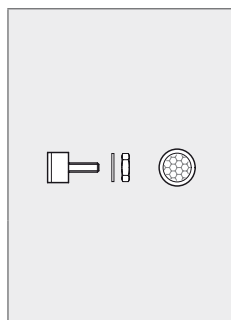


| Technische Daten (typ.) | Technical data (typ.) | +20 °C                                                                               |
|-------------------------|-----------------------|--------------------------------------------------------------------------------------|
| Stromversorgung         | Power supply          | 9V Batterie (2x, im Lieferumfang enthalten)<br>9V battery (2x, included in delivery) |
| Strombegrenzung         | Current limiting      | 100 mA Feinsicherung / miniature fuse                                                |
| Anschluss               | Connection            | Schnellspannbuchsen / quick-action sockets                                           |
| Schutzart               | Protection class      | IP 21                                                                                |
| Gehäusematerial         | Casing material       | Kunststoff / plastic                                                                 |
| Für                     | For                   | pnp- und npn-Sensoren / pnp and npn sensors                                          |

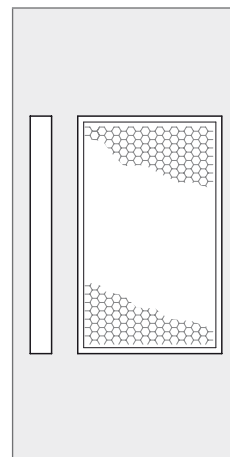
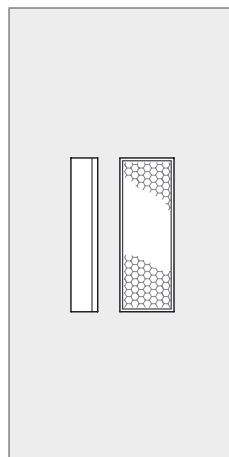
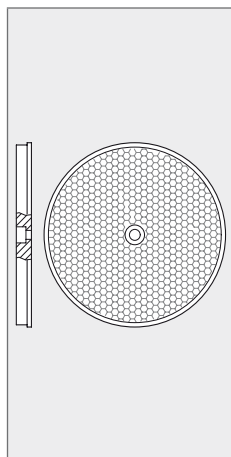
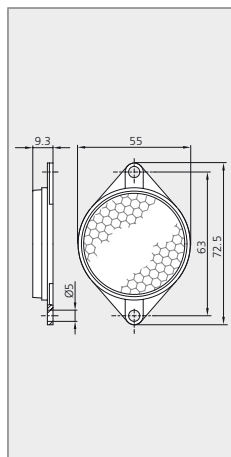
| Bestelltabelle | Purchase order table | Typ / Model |
|----------------|----------------------|-------------|
|                |                      | ST 6PN      |

## Reflektoren, Reflexfolien | Reflectors, reflection foils

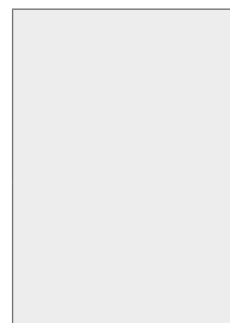
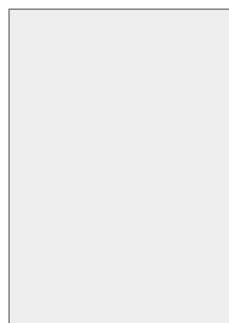
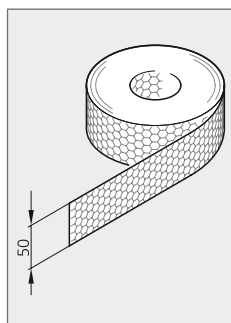
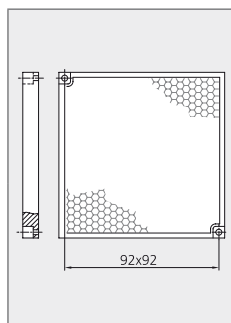
### Für Infrarot- und Rotlicht / For infrared and red light



|                                 |                              |                          |                       |                       |
|---------------------------------|------------------------------|--------------------------|-----------------------|-----------------------|
| Abmessungen / dimensions        | Ø 10 mm                      | Ø 19 mm                  | Ø 42 mm               | Ø 50 mm               |
| Höhe / height                   | 5,8 mm                       | 5,8 mm                   | 7 mm                  | 8 mm                  |
| Befestigung / mounting          | M3 x 8,4 mm /<br>M3 x 8,4 mm | M3 x 9 mm /<br>M3 x 9 mm | klebbar /<br>adhesive | klebbar /<br>adhesive |
| Temperaturfest / heat-resistant | bis / until 80 °C            | bis / until 80 °C        | bis / until 80 °C     | bis / until 80 °C     |
| Typ / Model                     | <b>R 10 M3</b>               | <b>R 21 M3</b>           | <b>R 42</b>           | <b>R 50</b>           |



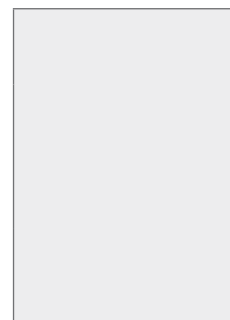
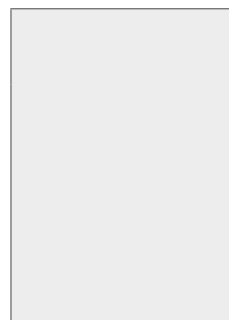
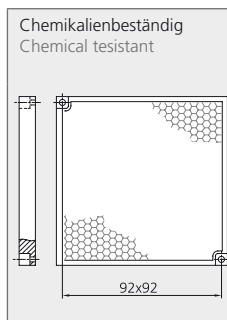
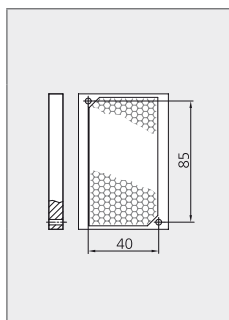
|                                 |                          |                            |                       |                       |
|---------------------------------|--------------------------|----------------------------|-----------------------|-----------------------|
| Abmessungen / dimensions        | Ø 50 mm                  | Ø 84 mm                    | 19 x 54 mm            | 50 x 80 mm            |
| Höhe / height                   | 9,3 mm                   | 7,4 mm                     | 9,4 mm                | 7,2 mm                |
| Befestigung / mounting          | 2 Bohrungen /<br>2 holes | Bohrung / hole<br>Ø 4,5 mm | klebbar /<br>adhesive | klebbar /<br>adhesive |
| Temperaturfest / heat-resistant | bis / until 80 °C        | bis / until 80 °C          | bis / until 80 °C     | bis / until 80 °C     |
| Typ / Model                     | <b>R 55</b>              | <b>R 84</b>                | <b>R 19 x 54</b>      | <b>R 50 x 80</b>      |



|                                 |                                 |                                  |
|---------------------------------|---------------------------------|----------------------------------|
| Abmessungen / dimensions        | 100 x 100 mm                    | 50 mm breit / width              |
| Höhe / height                   | 9 mm                            |                                  |
| Befestigung / mounting          | 2 Bohrungen / holes<br>Ø 3,8 mm | selbstklebend /<br>self-adhesive |
| Temperaturfest / heat-resistant | bis / until 80 °C               | bis / until 80 °C                |
| Typ / Model                     | <b>R 100 x 100</b>              | <b>RFP 50 / ... m</b>            |

Die Reflektoren und Reflexfolien sind auch für polarisiertes Licht geeignet.  
The reflectors and reflection foils are also suitable for polarized light.

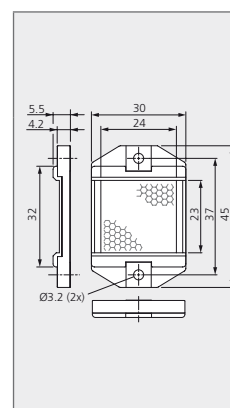
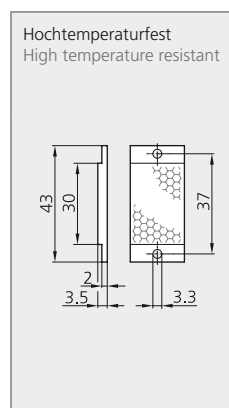
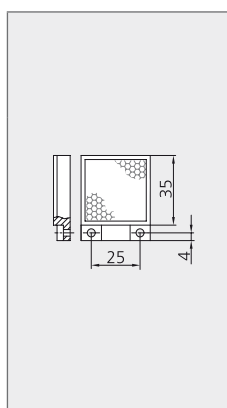
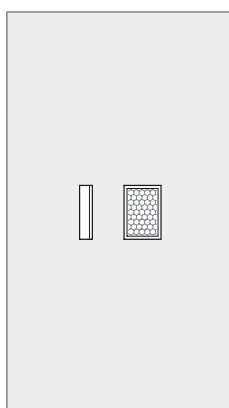
## Hochtemperaturfest, für Infrarot- und Rotlicht / High temperature resistant, for infrared and red light



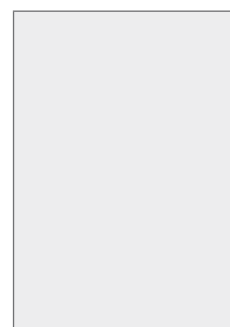
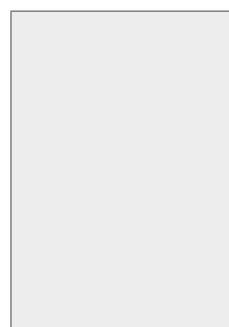
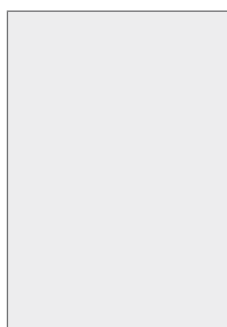
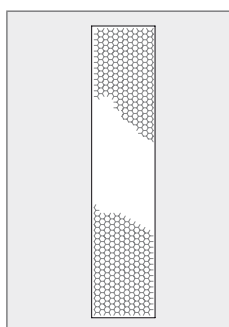
|                                 |                                     |                                     |
|---------------------------------|-------------------------------------|-------------------------------------|
| Abmessungen / dimensions        | 51x94mm                             | 100x100mm                           |
| Höhe / height                   | 9mm                                 | 9mm                                 |
| Befestigung / mounting          | 2 Bohrungen / holes<br>für / for M3 | 2 Bohrungen / holes<br>für / for M3 |
| Temperaturfest / heat-resistant | bis / until 500 °C                  | bis / until 150 °C                  |
| Typ / Model                     | <b>R 51x94/500°</b>                 | <b>R 100 x 100/150°</b>             |

## Für Laserlicht / for laser light

- 1) Die angegebene Reichweite kann um bis zu 50 % reduziert sein.  
1) The operating distance given can be reduced by up to 50%.



|                                 |                       |                                     |                                     |                                     |
|---------------------------------|-----------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Abmessungen / dimensions        | 12,8x16,8mm           | 42x35mm                             | 20x43mm                             | 45x30mm                             |
| Höhe / height                   | 4,2mm                 | 8,4mm                               | 3,5mm                               | 5,5mm                               |
| Befestigung / mounting          | klebbar /<br>adhesive | 2 Bohrungen / holes<br>für / for M3 | 2 Bohrungen / holes<br>für / for M3 | 2 Bohrungen / holes<br>für / for M3 |
| Temperaturfest / heat-resistant | bis / until 60 °C     | bis / until 60 °C                   | bis / until 110 °C                  | bis / until 70 °C                   |
| Typ / Model                     | <b>RL 13 x 17</b>     | <b>RL 42 x 35</b>                   | <b>RL 43x20/110°</b>                | <b>RL 45 x 30</b>                   |



|                                 |                                    |
|---------------------------------|------------------------------------|
| Abmessungen / dimensions        | 50x230mm                           |
| Höhe / height                   |                                    |
| Befestigung / mounting          | klebbar /<br>adhesive              |
| Temperaturfest / heat-resistant | bis / until 60 °C                  |
| Typ / Model                     | <b>RFPL 50 x 230 <sup>1)</sup></b> |

<sup>1)</sup> Die angegebene Reichweite kann um bis zu 50 % reduziert sein.  
The operating distance given can be reduced by up to 50%.

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The reflectors and reflection foils are also suitable for polarized light.



**GERMANY**

di-soric GmbH & Co. KG  
Steinbeisstraße 6  
73660 Urbach

Germany

Fon: +49(0)71 81/98 79-0

Fax: +49(0)71 81/98 79-179

[info@di-soric.com](mailto:info@di-soric.com)

## Niederlassungen Subsidiaries

**AUSTRIA**

di-soric Austria GmbH & Co. KG  
Burg 39  
4531 Kematen an der Krems

Austria

[info.at@di-soric.com](mailto:info.at@di-soric.com)

**FRANCE**

di-soric SAS  
19, Chemin du Vieux Chêne  
38240 Meylan

France

Fon: +33(0)4 76 61/65 90

Fax: +33(0)4 76 61/65 98

[info.fr@di-soric.com](mailto:info.fr@di-soric.com)

**SINGAPORE**

di-soric Pte. Ltd.  
119 Verde Crescent  
Singapore 688459

Singapore

Fon: +65/65 23 80 65

Fax: +65/65 23 80 67

[info.sg@di-soric.com](mailto:info.sg@di-soric.com)

