



COMPACT CATALOG

KOMPAKTKATALOG

- ◆ LED INDICATORS
LED-ANZEIGEN
- ◆ ELECTRONIC BUTTONS
ELEKTRONISCHE TASTER
- ◆ PHOTOELECTRIC SENSORS
OPTISCHE SENSOREN
- ◆ INDUCTIVE PROXIMITY SWITCHES
INDUKTIVE NÄHERUNGSSCHALTER
- ◆ CAPACITIVE PROXIMITY SWITCHES
KAPAZITIVE NÄHERUNGSSCHALTER

Frame Light Barrier Rahmenlichtschranken

- ▶ Resolution from 0,3 mm
- ▶ Response time from 25 µs
- ▶ Impact protection for optics
- ▶ Also with soft impact protection
- ▶ Static and dynamic evaluation, selectable
- ▶ Adjustable impulse lengthening
- ▶ High ambient light immunity
- ▶ Integrated blow-out connections
- ▶ Sturdy metal housing
- ▶ Auflösung ab 0,3 mm
- ▶ Ansprechzeit ab 25 µs
- ▶ Prallschutz für Optik
- ▶ Wahlweise mit nachgiebigem Prallschutz
- ▶ Statische und dynamische Auswertung, umschaltbar
- ▶ Einstellbare Impulsverlängerung
- ▶ Hohe Fremdlichtunempfindlichkeit
- ▶ Integrierte Freibleisanschlüsse
- ▶ Robustes Metallgehäuse



Reduced sensitivity by reflective objects approaching from the side.
Geringere Empfindlichkeit durch reflektierende Objekte, die sich von der Seite nähern.



Technical data (typ.)

| | |
|-------------------------------------|-----------------------------|
| Supply voltage | 10...35 V _{DC} |
| Reverse polarity protection | built-in |
| Current consumption | <50 mA |
| Detecting – switching output | |
| Current load capability | 200 mA |
| Short circuit protection | built-in, self-resetting |
| Impulse lengthening | ...150 ms, adjustable |
| Measuring – analog output | |
| Output type | current |
| Output offset | 0...4 mA, adjustable |
| Output range | 20 mA, adjustable |
| Output invertible | yes |
| Ambient light immunity | 100 kLux |
| Housing material | aluminum, black anodized |
| Impact protector material | aluminum, black anodized |
| alternatively | nitrile rubber (shore A70) |
| Operating temperature | −20...+55 °C −4...+131 °F |
| IP code | IP67 |

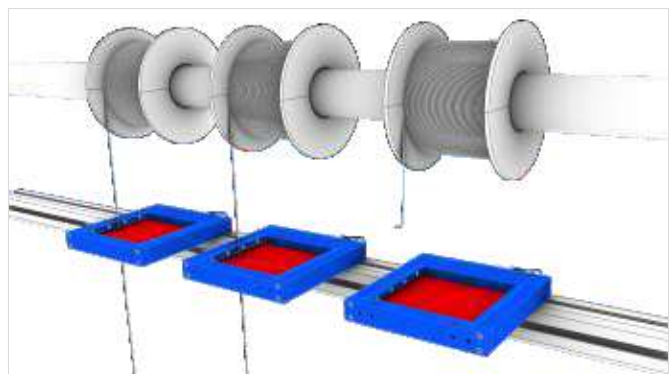
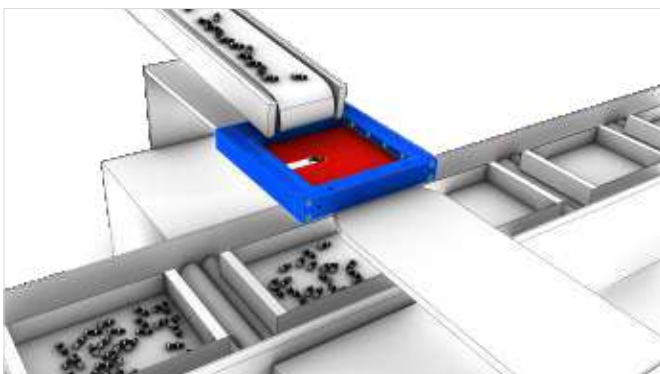
Technische Daten (typ.)

| | |
|----------------------------------|--------------------------------|
| Versorgungsspannung | 10...35 V _{DC} |
| Verpolungsschutz | integriert |
| Eigenstromaufnahme | <50 mA |
| Erkennend – Schaltausgang | |
| Ausgangsbelaubarkeit | 200 mA |
| Kurzschlusschutz | integriert, selbstrückstellend |
| Impulsverlängerung | ...150 ms, einstellbar |
| Messend – Analogausgang | |
| Ausgangstyp | Strom |
| Ausgangs-Offset | 0...4 mA, einstellbar |
| Ausgangsbereich | 20 mA, einstellbar |
| Ausgang invertierbar | ja |
| Fremdlichtunempfindlichkeit | 100 kLux |
| Gehäusematerial | aluminium, schwarz eloxiert |
| Prallschutzmaterial | aluminium, schwarz eloxiert |
| alternativ | Nitrilkautschuk (shore A70) |
| Betriebstemperatur | −20...+55 °C |
| Schutzart | IP67 |



| Active area [mm ²] Aktive Fläche [mm ²] | Resolution Auflösung | Ambient light immunity Fremdlichtunempfindlichkeit | Response time, release time Ansprechzeit, Abfallzeit | Dimensions, w × l × h Abmessungen, b × l × h | Output function Ausgangsfunktion | Output polarity Ausgangspolarität | Impact protector material Prallschutzwerkstoff | Order code Bestellnummer |
|--|-------------------------|---|---|---|-------------------------------------|--------------------------------------|--|----------------------------------|
| Standard | | | | | | | | |
| 50×48 | 0.7 mm | 200 klx | 0.1 ms | 90 × 100 × 20 mm | NO↔NC | PNP | Aluminum · Aluminium Nitrile rubber · Nitrilkautschuk | OFT50A-PS-A8 OFT50N-PS-A8 |
| 70×68 | 1.5 mm | 100 klx | 0.1 ms | 110 × 118 × 20 mm | NO↔NC | PNP | Aluminum · Aluminium Nitrile rubber · Nitrilkautschuk | OFT70A-PS-A8 OFT70N-PS-A8 |
| 100×98 | 2.5 mm | 60 klx | 0.1 ms | 140 × 148 × 20 mm | NO↔NC | PNP | Aluminum · Aluminium Nitrile rubber · Nitrilkautschuk | OFT100A-PS-A8 OFT100N-PS-A8 |
| 150×148 | 3.0 mm | 30 klx | 0.1 ms | 190 × 198 × 20 mm | NO↔NC | PNP | Aluminum · Aluminium Nitrile rubber · Nitrilkautschuk | OFT150A-PS-A8 OFT150N-PS-A8 |
| High resolution · Hochauflösend | | | | | | | | |
| 50×48 | 0.3 mm | 200 klx | 0.1 ms | 90 × 100 × 20 mm | NO↔NC | PNP | Aluminum · Aluminium Nitrile rubber · Nitrilkautschuk | OFT50A-RPS-A8 OFT50N-RPS-A8 |
| 70×68 | 0.4 mm | 100 klx | 0.1 ms | 110 × 118 × 20 mm | NO↔NC | PNP | Aluminum · Aluminium Nitrile rubber · Nitrilkautschuk | OFT70A-RPS-A8 OFT70N-RPS-A8 |
| 100×98 | 0.6 mm | 60 klx | 0.1 ms | 140 × 148 × 20 mm | NO↔NC | PNP | Aluminum · Aluminium Nitrile rubber · Nitrilkautschuk | OFT100A-RPS-A8 OFT100N-RPS-A8 |
| 150×148 | 0.8 mm | 30 klx | 0.1 ms | 190 × 198 × 20 mm | NO↔NC | PNP | Aluminum · Aluminium Nitrile rubber · Nitrilkautschuk | OFT150A-RPS-A8 OFT150N-RPS-A8 |
| High speed · Hochgeschwindigkeit | | | | | | | | |
| 50×48 | 0.7 mm | 200 klx | 25 μs | 90 × 100 × 20 mm | NO↔NC | PNP | Aluminum · Aluminium Nitrile rubber · Nitrilkautschuk | OFT50A-SPS-A8 OFT50N-SPS-A8 |
| 70×68 | 1.5 mm | 100 klx | 25 μs | 110 × 118 × 20 mm | NO↔NC | PNP | Aluminum · Aluminium Nitrile rubber · Nitrilkautschuk | OFT70A-SPS-A8 OFT70N-SPS-A8 |
| 100×98 | 2.5 mm | 60 klx | 25 μs | 140 × 148 × 20 mm | NO↔NC | PNP | Aluminum · Aluminium Nitrile rubber · Nitrilkautschuk | OFT100A-SPS-A8 OFT100N-SPS-A8 |
| 150×148 | 3.0 mm | 30 klx | 25 μs | 190 × 198 × 20 mm | NO↔NC | PNP | Aluminum · Aluminium Nitrile rubber · Nitrilkautschuk | OFT150A-SPS-A8 OFT150N-SPS-A8 |
| Analog output · Analogausgang | | | | | | | | |
| 50×48 | 0.3 mm | 200 klx | 1 kHz | 90 × 100 × 20 mm | Current Strom | 4...20 mA | Aluminum · Aluminium | OF50A-AI420-A8 |
| 70×68 | 0.4 mm | 100 klx | | 110 × 118 × 20 mm | | | Aluminum · Aluminium | OF70A-AI420-A8 |
| 100×98 | 0.6 mm | 60 klx | | 140 × 148 × 20 mm | | | Aluminum · Aluminium | OF100A-AI420-A8 |
| 150×148 | 0.8 mm | 30 klx | | 190 × 198 × 20 mm | | | Aluminum · Aluminium | OF150A-AI420-A8 |

Order codes are valid for PNP (PS) configuration. All devices also available in NPN (NS) configuration.
Bestellnummern gelten für PNP (PS) Konfiguration. Alle Geräte auch erhältlich als NPN (NS) Konfiguration.





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