Through-Beam Sensor





- Miniature design
- Rugged design with full encapsulation

Technical Data

| Optical Data | | | |
|--|---------------------------------|--|--|
| Range | 6000 mm | | |
| Smallest Recognizable Part | 1 mm | | |
| Switching Hysteresis | < 15 % Red Light 100000 h | | |
| Light Source | | | |
| Service Life (T = +25 °C) | | | |
| Max. Ambient Light | 10000 Lux | | |
| Opening Angle | 4 ° | | |
| Electrical Data | | | |
| Sensor Type | Receiver | | |
| Supply Voltage | 1030 V DC | | |
| Current Consumption (Ub = 24 V) | < 20 mA | | |
| Switching Frequency | 500 Hz | | |
| Response Time | 1 ms | | |
| Temperature Drift | < 10 % | | |
| Temperature Range | -2560 °C | | |
| Switching Output Voltage Drop | < 2,5 V | | |
| PNP Switching Output/Switching Current | 100 mA | | |
| Residual Current Switching Output | < 50 µA | | |
| Short Circuit and Overload Protection | yes | | |
| Reverse Polarity Protection | yes | | |
| Protection Class | III | | |
| Mechanical Data | | | |
| Setting Method | Potentiometer | | |
| Housing Material | Plastic | | |
| Full Encapsulation | yes | | |
| Degree of Protection | IP67 | | |
| Connection | Cable, 3-wire, 2 m | | |
| PNP NC | | | |
| Connection Diagram No. | 206 | | |
| Control Panel No. | K1 | | |
| Suitable Mounting Technology No. | 400 | | |

Suitable Emitter

SK96

These through beam sensors are best suited for use in industrial environments. Thanks to their large working range, the devices demonstrate excellent functional reliability in highly contaminated environments. The sensors can be checked for correct functioning via the test input.



Photoelectronic Sensors





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1 = Receiver Diode

2 = Alignment aid/Switching Status Indicator Screw M3 = 1 Nm All dimensions in mm (1 mm = 0.03937 Inch)



| Legend | | PŤ | Platinum measuring resistor | ENA | Encoder A | | |
|-----------|--|----------|------------------------------|--------------------------|---------------------|--|--|
| + | Supply Voltage + | nc | not connected | ENв | Encoder B | | |
| - | Supply Voltage 0 V | U | Test Input | Amin | Digital output MIN | | |
| ~ | Supply Voltage (AC Voltage) | Ū | Test Input inverted | Амах | Digital output MAX | | |
| А | Switching Output (NO) | W | Trigger Input | Аок | Digital output OK | | |
| Ā | Switching Output (NC) | 0 | Analog Output | SY In | Synchronization In | | |
| V | Contamination/Error Output (NO) | 0- | Ground for the Analog Output | SY OUT | Synchronization OUT | | |
| V | Contamination/Error Output (NC) | BZ | Block Discharge | Οιτ | Brightness output | | |
| E | Input (analog or digital) | Awv | Valve Output | м | Maintenance | | |
| т | Teach Input | а | Valve Control Output + | | | | |
| Z | Time Delay (activation) | b | Valve Control Output 0 V | | | | |
| S | Shielding | SY | Synchronization | Wire Colors according to | | | |
| RxD | Interface Receive Path | E+ | Receiver-Line | DIN IEC 757 | | | |
| TxD | Interface Send Path | S+ | Emitter-Line | BK | Black | | |
| RDY | Ready | | Grounding | BN | Brown | | |
| GND | Ground | SnR | Switching Distance Reduction | RD | Red | | |
| CL | Clock | Rx+/- | Ethernet Receive Path | OG | Orange | | |
| E/A | Output/Input programmable | Tx+/- | Ethernet Send Path | YE | Yellow | | |
| 0 | IO-Link | Bus | Interfaces-Bus A(+)/B(-) | GN | Green | | |
| PoE | Power over Ethernet | La | Emitted Light disengageable | BU | Blue | | |
| IN | Safety Input | Mag | Magnet activation | VT | Violet | | |
| OSSD | Safety Output | RES | Input confirmation | GY | Grey | | |
| Signal | Signal Output | EDM | Contactor Monitoring | WH | White | | |
| BI_D+/- | Ethernet Gigabit bidirect. data line (A-D) | ENARS422 | Encoder A/Ā (TTL) | PK | Pink | | |
| ENO RS422 | Encoder 0-pulse 0-0 (TTL) | ENBR5422 | Encoder B/B (TTL) | GNYE | Green/Yellow | | |
| | | | | | | | |



Specifications are subject to change without notice