## Reflex Sensor

## for Roller Conveyor Systems

## OPT1506

Part Number


## - Energy-saving

- Optimized performance
- Scaled switching distance adjuster
- Time-saving installation with fast-clip mounting system

These sensors have been specially designed for use in accumulation roller conveyors. Their compact design allows for installation between rollers below the transport level. High-precision background suppression makes it possible to reliably detect even black objects at up to 900 mm . The scaled switching-distance adjuster assures quick and simple adjustment to the desired distance. Thanks to the innovative fast-clip mounting system and quick wiring, the sensor are installed and ready for use in no time flat.


## Technical Data

| Optical Data |  |
| :---: | :---: |
| Range | 900 mm |
| Switching Hysteresis | < 5 \% |
| Light Source | Infrared Light |
| Wave Length | 860 nm |
| Service Life ( $\mathrm{T}=+25^{\circ} \mathrm{C}$ ) | 100000 h |
| Risk Group (EN 62471) | 1 |
| Max. Ambient Light | 90000 Lux |
| Opening Angle | $3{ }^{\circ}$ |
| Electrical Data |  |
| Supply Voltage | 12...30 V DC |
| Current Consumption Sensor (Ub = 24 V ) | < 16 mA |
| Switching Frequency | 100 Hz |
| Response Time | 5 ms |
| Temperature Drift | < 5 \% |
| Temperature Range | $-40 . . .60^{\circ} \mathrm{C}$ |
| Switching Outputs | 1 |
| Switching Output Voltage Drop | <0,9 V |
| PNP Switching Output/Switching Current | 200 mA |
| Short Circuit Protection | yes |
| Reverse Polarity Protection | yes |
| Overload Protection | yes |
| Logic | no |
| Protection Class | III |
| Mechanical Data |  |
| Setting Method | Potentiometer |
| Housing Material | Plastic |
| Degree of Protection | IP67 |
| Connection | M12 $\times 1 ; 4$-pin |
| PNP NC | O |
| Connection Diagram No. | 711 |
| Control Panel No. | OP1 |
| Suitable Connection Technology No. | 2 |
| Suitable Mounting Technology No. | 421 |

## Complementary Products

PNP-NPN Converter BG2V1P-N-2M
ZPTX001 quick mount


Ctrl. Panel


05 = Switching Distance Adjuster $30=$ Switching Status/Contamination Warning


## Switching Distance Deviation

Typical characteristic curve based on Kodak white (90 \% remission)

## OPT15xx



