## Reflex Sensor

for Roller Conveyor Systems

## OPT1543

Part Number


## - Energy-saving

- Increased capacity thanks to intelligent functions
- Optimized performance
- Time-saving initial start-up with fast-clip mounting system and quick wiring
- Wireless settings via NFC

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 . Settings are entered via wireless NFC, which is even possible in the de-energized state. Thanks to the innovative fast-clip mounting system and quick wiring, the sensors are installed and ready for use in no time flat.


## Technical Data

| Optical Data |  |
| :---: | :---: |
| Range | 900 mm |
| Switching Hysteresis | < 5 \% |
| Light Source | Infrared Light |
| Wavelength | 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 | $-40 . . .60^{\circ} \mathrm{C}$ |
| Number of Switching Outputs | 2 |
| 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 | yes |
| Single Discharge | yes |
| Block Forwarding | yes |
| Output Magnetic Valve/Engine | yes |
| Automatic Roller Shutdown | yes |
| Protection Class | III |
| Mechanical Data |  |
| Setting Method | NFC |
| Housing Material | Plastic |
| Degree of Protection | IP67 |
| Connection | M12 $\times 1 ; 4$-pin |
| Cable Length | 100 cm |
| PNP NO/NC switchable |  |
| NFC Receiver Category 3 |  |
| Connection Diagram No. | 147 |
| Control Panel No. | OP3 |
| Suitable Connection Equipment No. | 2 2s |
| Suitable Mounting Technology No. | 421 |

## Complementary Products

## Adapter OPT70N, OPT70S, OPT70P

Software
USB NFC Adapter
ZPTX001 Quick Mount
wenglor
the innovative family


Ctrl. Panel

$2 \mathrm{a}=$ NFC interface
3a = Switching Status Indicator/Error Indicator


Switching Distance Deviation
Typical characteristic curve based on white, 90 \% remission

## OPT15xx



