## Reflex Sensor

## for Roller Conveyor Systems

## OPT1502

Part Number


- Energy savings thanks to EcoMode
- Optimized performance
- Quick wiring
- 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 |
| 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 | 20,6...30 V DC |
| Current Consumption Sensor (Ub = 24 V ) | < 16 mA |
| EcoMode | yes |
| Switching Frequency | 100 Hz |
| Response Time | 5 ms |
| Temperature Drift | < 5 \% |
| Temperature Range | $-40 . . .60{ }^{\circ} \mathrm{C}$ |
| Number of 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 | yes |
| Single Discharge | yes |
| Block Forwarding | yes |
| Solenoid Valve | yes |
| Protection Class | III |
| Mechanical Data |  |
| Setting Method | Potentiometer |
| Housing Material | Plastic |
| Degree of Protection | IP65 |
| Connection | M12 $\times 1 ; 4$-pin |
| Cable Length | 200 cm |
| Pneumatic Solenoid Valve Unit |  |
| Valve no. | K04 |
| Supply Voltage Valve | 19,2...28,8 V |
| Current Consumption Valve | 86 mA |
| Valve temperature range | $-15 . .50{ }^{\circ} \mathrm{C}$ |
| Operating Pressure | 4... 7 bar |
| Nominal Width | 0,8 mm |
| Nominal flow rate $1->2$ | $20 \mathrm{NL} / \mathrm{min}$ |
| Nominal flow rate $2->3$ | $100 \mathrm{NL} / \mathrm{min}$ |
| Supply-Line Connector Pipe | $2 \times 8 \times 1$ |
| Working-Line Connector Pipe | $4 \times 1$ |
| Valve function | 3/2-Way |
| Switching function | NC |
| PNP NC | O |
| Connection Diagram No. | 734 |
| Control Panel No. | OP1 |
| Suitable Connection Equipment No. | 2 2s |
| Suitable Mounting Technology No. | 421 |

## Complementary Products

[^0]ZPTX001 Quick Mount


Ctrl. Panel


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


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

## OPT15xx




[^0]:    Adapter OPT70N, OPT70S, OPT70P

