

Intelligent Logistics for Tomorrow

Sensors for Roller Conveyor Systems



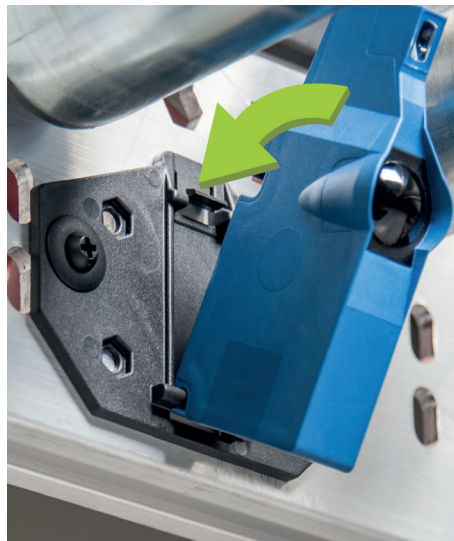
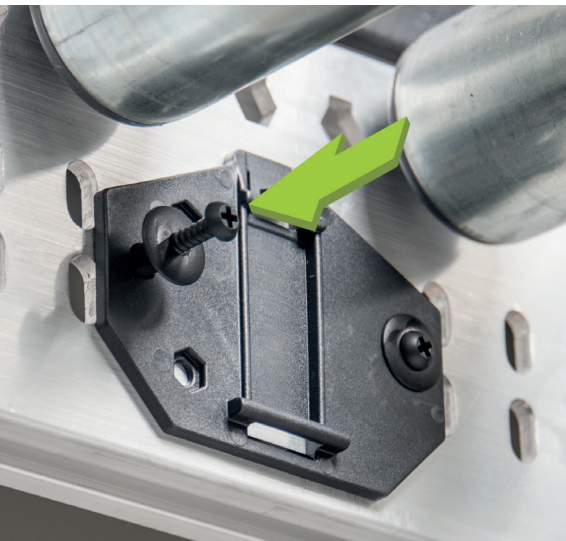
Sensors for Roller Conveyor Systems have been specially developed for applications in the fields of warehousing and conveyor technology. As the inventor of this extraordinary housing format, wenglor offers intelligent stand-alone solutions as well as system solutions in this area. Thanks to their format, the Reflex Sensors with Background Suppression and the Retro-Reflex Sensors can be mounted between two rollers below the conveyor level – which makes them extremely well suited for complex use in race-way conveyors. In addition to high levels of operating convenience, other outstanding features of these unique wenglor products include reliable detection of goods to be conveyed in differing sizes at diverse positions, and with various surface characteristics and colors.



Ingeniously Simple Handling

The New Generation for Roller Conveyor Systems

With just two clips it's ready to go: the time-saving Fast-Clip Mounting System.



The intuitive Fast-Clip Mounting System reduces installation and maintenance effort by up to 60% as compared with conventional screw-type mounting systems.

First of all, the mounting anchors are pressed into the plate and thus secured to the back panel. The sensor is then clipped into the mounting plate by means of the mounting slots provided for this purpose – that's all. In addition to cost savings, this innovative system also offers excellent stability and a long service life.



The Features at a Glance

- Fast-Clip Mounting System
- Quick wiring
- 270° scaled switching distance adjuster
- Current consumption reduced by 75% in the switched state thanks to the EcoMode
- Detection of small packages with widths as of 150 mm with conveyor widths of up to 900 mm
- Can be used within a temperature range of –40° C to 60° C
- Detection of dark to black objects thanks to high-precision background suppression
- Additional I/O plug for diagnostics as a standard feature
- Highly insensitive to extraneous light of up to 90,000 lux
- Small switching hysteresis: < 5 %

Reduced Wiring Time thanks to Quick Connectors



Wiring effort can be reduced by up to 90% with the quick wiring concept, especially where large quantities are involved. After turning it just 180°, the M12 plug is securely connected to the sensor. 100% compatibility with common standard cables is assured.

Outstanding Operating Convenience with 270° Potentiometer



Infinite adjustment of switching distances is quick and easy with the new 270° scaled potentiometer. At first glance, each potentiometer setting can be assigned to a specific switching distance – even when the sensor is not in operation. In particular prior to initial start-up, this convenient adjustment option provides a significant time advantage.




Reduced Consumption of Resources Thanks to EcoMode






With current consumption of less than 16 mA, wenglor's Reflex Sensors are amongst the absolute front runners where energy savings are concerned. Thanks to the integrated EcoMode, power consumption is reduced by 75% for the solenoid valves and additional energy savings are achieved in the switched state.

System Overview

Reflex Sensors with Background Suppression

With Accumulation Logic				Without Accumulation Logic	
For Pneumatics		For Motorized Rollers			
Sensor with valve K04		Sensor with valve K03			
					
Order no.	Cable length	Order no.	Cable length	Order no.	Output
OPT1500	1 m	OPT1503	1 m	OPT1506	NC
OPT1501	1,5 m	OPT1504	1,5 m	OPT1507	NO
OPT1502	2 m	OPT1505	2 m	OPT1508	Antivalent
				Order no.	Function
				OPT144	0,88 m, Block forwarding
				OPT244-P06	1,5 m, Automatic roller shutdown

Retro-Reflex Sensors

With Accumulation Logic				Without Accumulation Logic	
For Pneumatics					
Sensor with valve K04		Sensor with valve K03			
					
Order no.	Cable length	Order no.	Cable length	Order no.	Output
OPT162	0,88 m	OPT175-P06	1,5 m	OPT164	NO
OPT162-P06	1,5 m	OPT175-P08	2 m		

Mounting Technology

Fast-Clip Mounting System



Order no.
ZPTX001



Order no.
ZPTX003

Mounting Bracket



Order no.
ZPTX002

Mounting Anchors



Order no.
ZPTE001

Systematic Innovation

Complete Solutions for Warehousing and Conveyor Technology

wenglor offers an extensive portfolio of innovative product solutions for individual and mass sampling targeted especially for your needs. In addition to various modes of operation (scanning and barrier modes), sensors are available with or without accumulation logic, as well as with pneumatic valves or direct electrical actuation. There are also a wide variety of mounting and fastening systems, which provide appropriate solutions for any raceway conveyor.



Smart Conveying With or Without Accumulation Logic

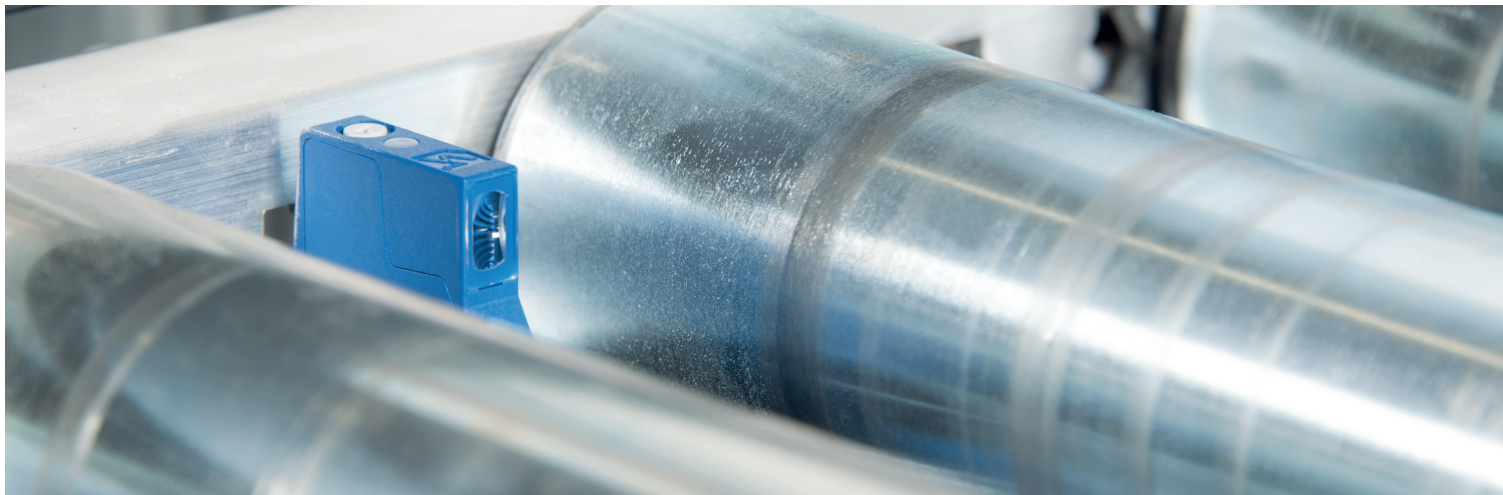
Sensors for Roller Conveyor Systems are capable of controlling the flow of materials within logistics systems such that each type of material to be conveyed is reliably detected and correctly positioned. wenglor offers sensors with or without integrated accumulation logic for this intelligent conveyor control. By daisy chaining several sensors, **individual forwarding** as well as **block forwarding** of several objects can be implemented simultaneously. Sensors without integrated logic are connected directly to a controller.

Convincing Across the Board with Scanning or Barrier Operating Mode

Reflex Sensors with Background Suppression function in accordance with the principal of angular measurement. With **ranges of up to 900 mm** and a switching hysteresis of less than 5%, even small objects with widths of down to just 150 mm can be detected over the entire conveyor width. **Retro-Reflective Light Barriers with Reflector** function in accordance with the barrier principle. **Ranges of up to 6500 mm** are thus made possible.

Logical Switching with Air or Electrical Current

Sensors with integrated accumulation logic control the motorized rollers in the Roller Conveyor Systems **directly via electric outputs or pneumatically by means of solenoid valves** – depending on which system you use.





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www.wenglor.com