Reflex Sensor for Roller Conveyor Systems

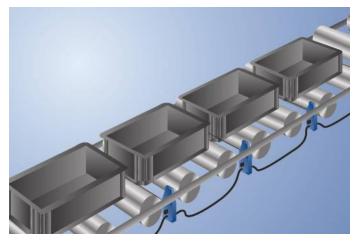
OPT1501

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

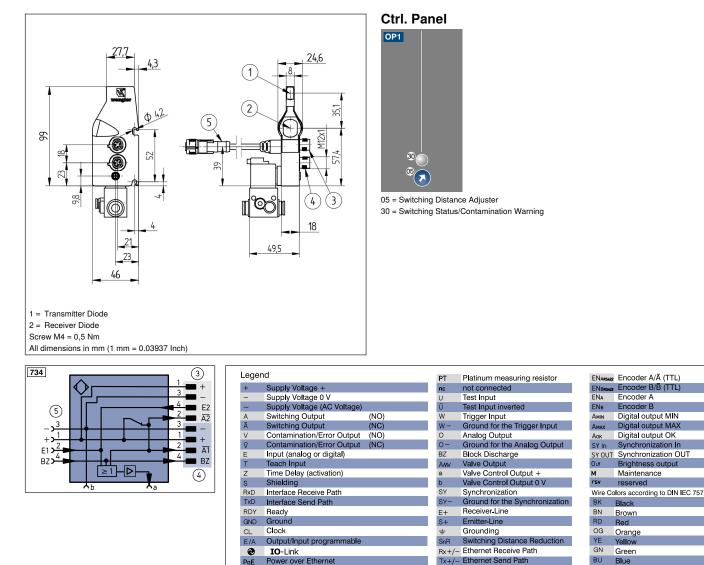
Optical Data	
Range	900 mm
Switching Hysteresis	< 5 %
Light Source	Infrared Light
Wavelength	860 nm
Service Life (T = +25 °C)	100000 h
Risk Group (EN 62471)	1
Max. Ambient Light	90000 Lux
Opening Angle	3 °
Electrical Data	
Supply Voltage	20,630 V DC
Current Consumption Sensor (Ub = 24 V)	< 16 mA
EcoMode	yes
Switching Frequency	100 Hz
Response Time	5 ms
Temperature Drift	< 5 %
Temperature Range	-4060 °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 × 1; 4-pin
Cable Length	150 cm
Pneumatic Solenoid Valve Unit	
Valve no.	K04
Supply Voltage Valve	19,228,8 V
Current Consumption Valve	86 mA
Valve temperature range	-1550 °C
Operating Pressure	47 bar
Nominal Width	0,8 mm
Nominal flow rate 1 -> 2	20 NL/min
Nominal flow rate 2 -> 3	100 NL/min
Supply-Line Connector Pipe	2× 8×1
Working-Line Connector Pipe	4×1
Valve function	3/2-Way
Switching function	NC
PNP NC	
	724
Connection Diagram No.	734
Control Panel No.	OP1
Suitable Connection Equipment No.	2 2s
Suitable Mounting Technology No.	421

Complementary Products

Adapter OPT70N, OPT70S, OPT70P ZPTX001 Quick Mount

Photoelectronic Sensors





IN

Safety Input

BI_D+/- Ethernet Gigabit bidirect. data line (A-D) ENorsez Encoder 0-pulse 0-0 (TTL)

OSSD Safety Output

Signal Signal Output

Switching Distance Deviation

Interfaces-Bus A(+)/B(-) Emitted Light disengageable

Magnet activation

Input confirmation

Contactor Monitoring

La

Mag RES

EDM

Typical characteristic curve based on white, 90 % remission

VT

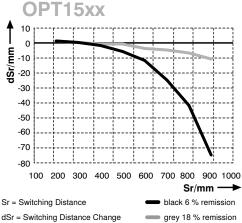
GY

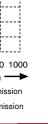
WΗ White

Violet

Grev

PK Pink GNYE Green/Yellow







Specifications are subject to change without notice