Reflex Sensor

for Roller Conveyor Systems

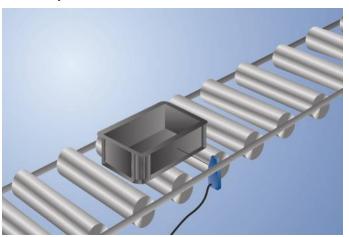
OPT1507

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

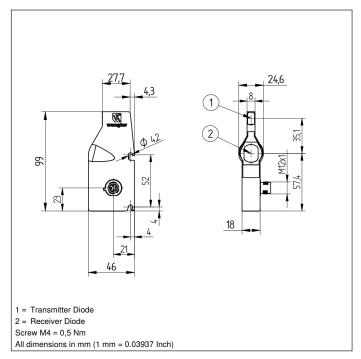
Optical Data	
Range	900 mm
Switching Hysteresis	< 5 %
Light Source	Infrared Light
Wave Length	860 nm
Service Life (T = +25 °C)	100000 h
Risk Group (EN 62471)	1
Max. Ambient Light	90000 Lux
Opening Angle	3 °
Electrical Data	
Supply Voltage	1230 V DC
Current Consumption Sensor (Ub = 24 V)	< 16 mA
Switching Frequency	100 Hz
Response Time	5 ms
Temperature Drift	< 5 %
Temperature Range	-4060 °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 × 1; 4-pin
PNP NO	•
Connection Diagram No.	712
Control Panel No.	OP1
Suitable Connection Technology No.	2 2s
Suitable Mounting Technology No.	421

Complementary Products

PNP-NPN Converter BG2V1P-N-2M

ZPTX001 quick mount

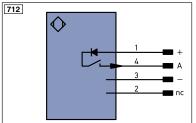




Ctrl. Panel



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



+	Supply Voltage +		PT	Platinum measuring resistor E	Na	Encoder A
-	Supply Voltage 0 V		nc	not connected E	Nв	Encoder B
~	Supply Voltage (AC Voltage)		U	Test Input	Ам м	Digital output MIN
Α	Switching Output (NO)		Ū	Test Input inverted A	ХАМА	Digital output MAX
Ā	Switching Output (NC)		W	Trigger Input	Лок	Digital output OK
V	Contamination/Error Output	(NO)	0	Analog Output S	SY In	Synchronization In
⊽	Contamination/Error Output	(NC)	0-	Ground for the Analog Output	Y OUT	Synchronization OUT
E	Input (analog or digital)		BZ	Block Discharge 0) L T	Brightness output
Т	Teach Input		Awv	Valve Output		
Z	Time Delay (activation)		а	Valve Control Output +		Wire Colors according to
S	Shielding		b	Valve Control Output 0 V		DIN IEC 757
RxD	Interface Receive Path		SY	Synchronization B	3K	Black
TxD	Interface Send Path		E+	Receiver-Line B	BN	Brown
RDY	Ready		S+	Emitter-Line R	RD	Red
GND	Ground		+	Grounding)G	Orange
CL	Clock		SnR	Switching Distance Reduction Y	Æ	Yellow
E/A	Output/Input programmable		Rx+/-	Ethernet Receive Path	3N	Green
②	IO-Link		Tx+/-	Ethernet Send Path B	3U	Blue
PoE	Power over Ethernet		Bus	Interfaces-Bus A(+)/B(-)	/T	Violet
IN	Safety Input		La	Emitted Light disengageable	ЭΥ	Grey
OSSD	Safety Output		Mag	Magnet activation	٧H	White
Signal	Signal Output		RES	Input confirmation P	γK	Pink
М	Maintenance		EDM	Contactor Monitoring	SNYE	Green Yellow

Switching Distance Deviation

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

