Reflex Sensor

for Roller Conveyor Systems

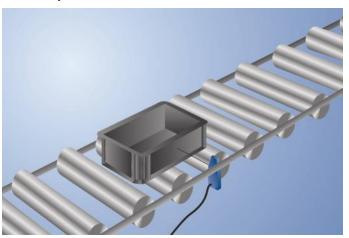
OPT1507

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

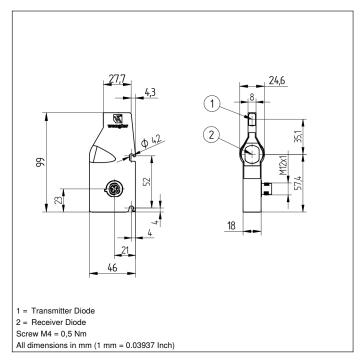
Optical Data			
Range	900 mm		
Switching Hysteresis	< 5 %		
Light Source	Infrared Light		
Wavelength	860 nm		
Service Life (T = +25 °C)	100000 h		
Risk Group (EN 62471)	1		
Max. Ambient Light	90000 Lux		
Opening Angle	3 °		
Electrical Data			
Supply Voltage	1230 V DC		
Current Consumption Sensor (Ub = 24 V)	< 16 mA		
Switching Frequency	100 Hz		
Response Time	5 ms		
Temperature Drift	< 5 %		
Temperature Range	-4060 °C		
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	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 Equipment No.	2 2s		
Suitable Mounting Technology No.			

Complementary Products

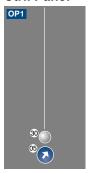
PNP-NPN Converter BG2V1P-N-2M

ZPTX001 Quick Mount

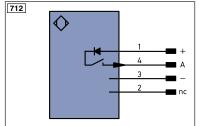




Ctrl. Panel



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



_egen	ıd		PT	Platinum measuring resistor	ENARS422	Encoder A/Ā (TTL)	
+	Supply Voltage +		nc	not connected	ENBR5422	Encoder B/B (TTL)	
-	Supply Voltage 0 V		U	Test Input	ENA	Encoder A	
~	Supply Voltage (AC Voltage)		Ū	Test Input inverted	ENB	Encoder B	
Α	Switching Output	(NO)	W	Trigger Input	Amin	Digital output MIN	
Ā	Switching Output	(NC)	W -	Ground for the Trigger Input	Амах	Digital output MAX	
٧	Contamination/Error Output	(NO)	0	Analog Output	Аок	Digital output OK	
V	Contamination/Error Output	(NC)	0-	Ground for the Analog Output	SY In	Synchronization In	
E	Input (analog or digital)		BZ	Block Discharge	SY OUT	Synchronization OUT	
Т	Teach Input		Awv	Valve Output	OLT	Brightness output	
Z	Time Delay (activation)		а	Valve Control Output +	М	Maintenance	
S	Shielding		b	Valve Control Output 0 V	rsv	reserved	
RxD	Interface Receive Path		SY	Synchronization	Wire Co	Wire Colors according to DIN IEC 757	
TxD	Interface Send Path		SY-	Ground for the Synchronization	BK	Black	
RDY	Ready		E+	Receiver-Line	BN	Brown	
GND	Ground		S+	Emitter-Line	RD	Red	
CL	Clock		±	Grounding		Orange	
E/A	Output/Input programmable		SnR	Switching Distance Reduction	YE	Yellow	
•	IO-Link		Rx+/-	Ethernet Receive Path	GN	Green	
PoE	Power over Ethernet		Tx+/-	Ethernet Send Path	BU	Blue	
IN	Safety Input		Bus	Interfaces-Bus A(+)/B(-)	VT	Violet	
OSSD	Safety Output		La	Emitted Light disengageable	GY	Grey	
Signal	Signal Output		Mag	Magnet activation	WH	White	
BI_D+/-	Ethernet Gigabit bidirect, data	line (A-D)	RES	Input confirmation	PK	Pink	
ENOR5422	Encoder 0-pulse 0-0 (TTL)		EDM	Contactor Monitoring	GNYE	Green/Yellow	

Switching Distance Deviation

Typical characteristic curve based on white, 90 % remission

