Reflex Sensor

for Roller Conveyor Systems

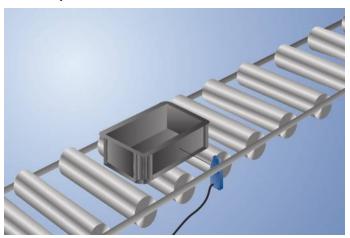
OPT1506

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

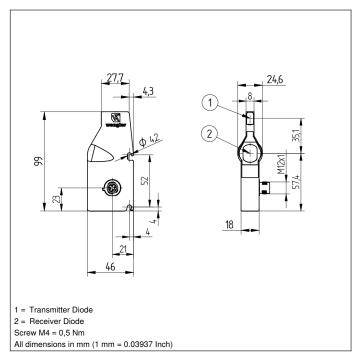
Optical Data			
Range	900 mm		
Switching Hysteresis	< 5 %		
Light Source	Infrared Light		
Wave Length	860 nm		
Service Life (T = +25 °C)	100000 h		
Risk Group (EN 62471)	1		
Max. Ambient Light	90000 Lux		
Opening Angle	3 °		
Electrical Data			
Supply Voltage	1230 V DC		
Current Consumption Sensor (Ub = 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 NC	•		
Connection Diagram No.	711		
Control Panel No.	OP1		
Suitable Connection Technology No.	2		
Suitable Mounting Technology No.	421		

Complementary Products

PNP-NPN Converter BG2V1P-N-2M

ZPTX001 quick mount

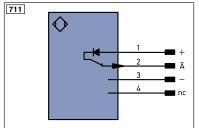




Ctrl. Panel



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



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

Switching Distance Deviation

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

