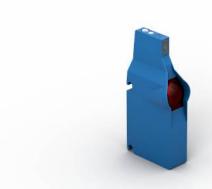
Reflex Sensor

with Background Suppression

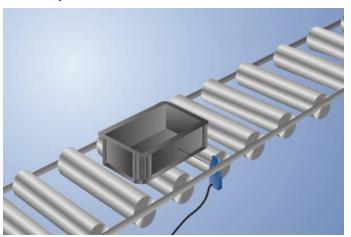
OPT1506

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.



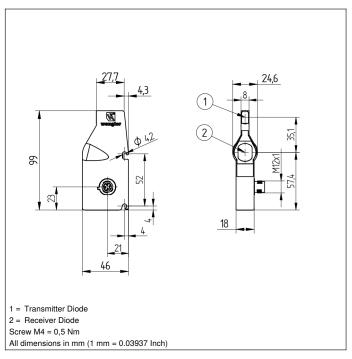
Technical Data

Optical Data				
Range	900 mm			
Switching Hysteresis	< 5 %			
Light Source	Infrared Light			
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 NC	•			
Connection Diagram No.	711			
Control Panel No.	OP1			
Suitable Connection Equipment No.	2			
Suitable Mounting Technology No.	421			

Complementary Products

PNP-NPN Converter BG2V1P-N-2M

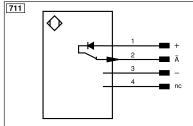
ZPTX001 Quick Mount





05 = Switching Distance Adjuster

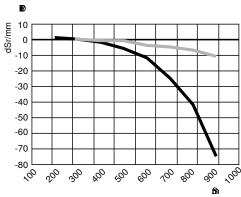
30 = Switching Status/Contamination Warning



+	Supply Voltage +	nc	Not connected	ENBRS422	Encoder B/B (TTL)	
_	Supply Voltage 0 V	U	Test Input	FNA	Encoder A	
~	Supply Voltage (AC Voltage)	0	Test Input inverted	ENB	Encoder B	
Ą	Switching Output (NO)	W	Trigger Input	AMIN	Digital output MIN	
Ā	Switching Output (NC)	W-	Ground for the Trigger Input	AMAX	Digital output MAX	
/	Contamination/Error Output (NO)	0	Analog Output	Аок	Digital output OK	
7	Contamination/Error Output (NC)	0-	Ground for the Analog Output	SY In	Synchronization In	
	Input (analog or digital)	BZ	Block Discharge	SY OUT	Synchronization OUT	
Г	Teach Input	Amv	Valve Output	OLT	Brightness output	
7	Time Delay (activation)	а	Valve Control Output +	M	Maintenance	
3	Shielding	b	Valve Control Output 0 V	rsv	Reserved	
RxD	Interface Receive Path	SY	Synchronization	Wire Colo	Wire Colors according to DIN IEC 60757	
ΓxD	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	OG	Orange	
E/A	Output/Input programmable	SnR	Switching Distance Reduction	YE	Yellow	
3	IO-Link	Rx+/-	Ethernet Receive Path	GN	Green	
PoE	ower over Ethernet	Tx+/-	Ethernet Send Path	BU	Blue	
N	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	
3I_D+/-	Ethernet Gigabit bidirect. data line (A-D)	RES	Input confirmation	PK	Pink	
ENo RS422	Encoder 0-pulse 0/0 (TTL)	EDM	Contactor Monitoring	GNYE	Green/Yellow	
PT	Platinum measuring resistor	ENARS422	Encoder A/Ā (TTL)			

Switching Distance Deviation

Typical characteristic curve based on white, 90 % remission













Specifications are subject to change without notice