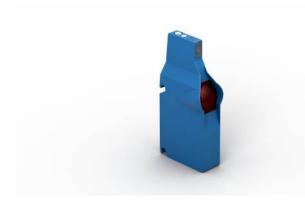
# Reflex Sensor with Background Suppression

# **OPT1507**

Part Number

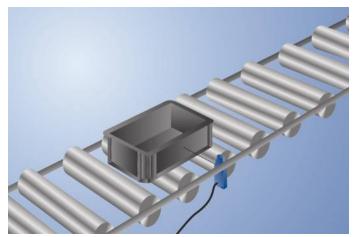


- Energy-saving
- Optimized performance
- Scaled switching distance adjuster
- Time-saving installation with fast-clip mounting system

## **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.	421				

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.

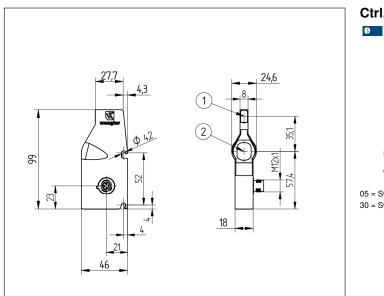


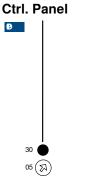
#### **Complementary Products**

PNP-NPN Converter BG2V1P-N-2M ZPTX001 Quick Mount

# **Photoelectronic Sensors**







05 = Switching Distance Adjuster

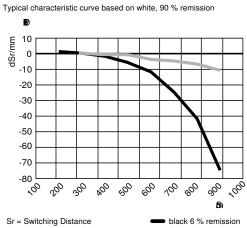
30 = Switching Status/Contamination Warning

Screw M4 = 0,5 Nm All dimensions in mm (1 mm = 0.03937 Inch) 712  $\Diamond$ ~ A A V V E T Z S R×X T×I RE GN CLL E/ Po IN OSig BI, EN PT 4 3 2 nc

1 = Transmitter Diode 2 = Receiver Diode

.egend						
	Supply Voltage +	nc	Not connected	ENBRS422	Encoder B/B (TTL)	
	Supply Voltage 0 V	U	Test Input	ENA	Encoder A	
	Supply Voltage (AC Voltage)	Ū	Test Input inverted	ENв	Encoder B	
\	Switching Output (NO)	W	Trigger Input	Amin	Digital output MIN	
(	Switching Output (NC)	W-	Ground for the Trigger Input	Amax	Digital output MAX	
·	Contamination/Error Output (NO)	0	Analog Output	Аок	Digital output OK	
,	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	
	Teach Input	Amv	Valve Output	Olt	Brightness output	
	Time Delay (activation)	а	Valve Control Output +	M	Maintenance	
	Shielding	b	Valve Control Output 0 V	rsv	Reserved	
lхD	Interface Receive Path	SY	Synchronization	Wire Color	e Colors according to DIN IEC 60757	
хD	Interface Send Path	SY-	Ground for the Synchronization	BK	Black	
DY	Ready	E+	Receiver-Line	BN	Brown	
iND	Ground	S+	Emitter-Line	RD	Red	
L	Clock	<u>+</u>	Grounding	OG	Orange	
/A	Output/Input programmable	SnR	Switching Distance Reduction	YE	Yellow	
	IO-Link	Rx+/-	Ethernet Receive Path	GN	Green	
oE	ower over Ethernet	Tx+/-	Ethernet Send Path	BU	Blue	
V	Safety Input	Bus	Interfaces-Bus A(+)/B(-)	VT	Violet	
SSD	Safety Output	La	Emitted Light disengageable	GY	Grey	
ignal	Signal Output	Mag	Magnet activation	WH	White	
I_D+/-	Ethernet Gigabit bidirect. data line (A-D)	RES	Input confirmation	PK	Pink	
No RS422	Encoder 0-pulse 0/0 (TTL)	EDM	Contactor Monitoring	GNYE	Green/Yellow	
Т	Platinum measuring resistor	ENARS422	Encoder A/Ā (TTL)			

### **Switching Distance Deviation**



dSr = Switching Distance Change



grey 18 % remission