Through-Beam Sensor for PET Selection

OERS947

Part Number



- Coded output
- Compact housing
- Polarization filter
- Simple installation
- Teach-in and external teach-in

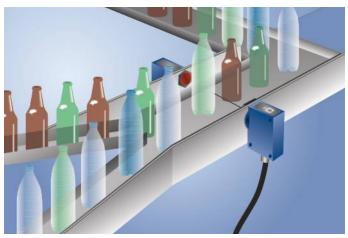
Technical Data

Optical Data		
Range	300 mm	
Light Source	Red Light	
Service Life (T = +25 °C)	100000 h	
Max. Ambient Light	10000 Lux	
Opening Angle	4 °	
Electrical Data		
Sensor Type	Receiver	
Supply Voltage	1030 V DC	
Current Consumption (Ub = 24 V)	< 20 mA	
Switching Frequency	150 Hz	
Response Time	1,8 ms	
Temperature Drift	< 10 %	
Temperature Range	-2560 °C	
Number of Switching Outputs	2	
Switching Output Voltage Drop	< 2,5 V	
PNP Switching Output/Switching Current	100 mA	
Residual Current Switching Output	< 50 µA	
Short Circuit and Overload Protection	yes	
Reverse Polarity Protection	yes	
Protection Class	III	
Mechanical Data		
Setting Method	Teach-In	
Housing Material	Plastic	
Full Encapsulation	yes	
Degree of Protection	IP67	
Connection	M12 × 1; 5-pin	
PNP NO		
Connection Diagram No.	363	
Control Panel No.	R1	
Suitable Connection Equipment No.	2	
Suitable Mounting Technology No.	150 370	

Suitable Emitter

OSRS946

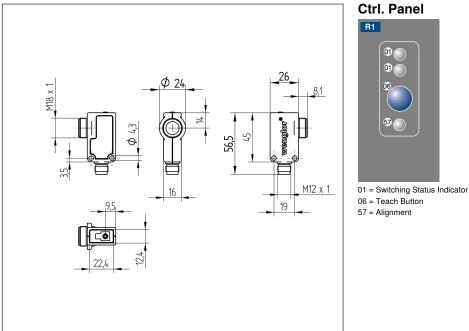
These through-beam sensors distinguish transparent PET from other transparent materials such as glass and opaque objects. They have two switch outputs for representing these two states. The sensor can be tested for its function by means of the test input. Furthermore, several transmitters can be synchronized whereby close sensors do not affect each other. The M18 threaded mounting enables the Sensor to be easily mounted and protected mechanically.



Complementary Products
Dust Extraction Tube STAUBTUBUS-01

Photoelectronic Sensors





Legend

Supply Voltage +

Supply Voltage 0 V Supply Voltage (AC Vo

Teach Input Time Delay (activation)

Output/Input program

BLD+/- Ethernet Gigabit bidirect. data line (A-D) ENorsez Encoder 0-pulse 0-0 (TTL)

Power over Ethernet

Shielding

Ready

IO-Link

OSSD Safety Output

Signal Signal Output

Safety Input

GND Ground CL Clock

 RxD
 Interface Receive Pa

 TxD
 Interface Send Path
 Interface Receive Path

Contamination/Error Output (NO) Contamination/Error Output (NO) Input (analog or digital)

Switching Output Switching Output

Ū

w

(NO)

(NC)

+

A Ā V

V

E T

Z S

RDY

E/A

0

PoF

IN

ENARS422 Encoder A/Ā (TTL) Platinum measuring resistor PŤ ENBRS422 Encoder B/B (TTL) ENA Encoder A not connected nc Test Input ЕМв Encoder B Test Input inv Trigger Input Ground for the Trigger Input AMINDigital output MINAMAXDigital output MAX W -Analog Output Ground for the Analog Output Аок SY In Digital output OK 0-Synchronization In Block Discharge Valve Output Valve Control Output + Valve Control Output 0 V SY OUT Synchronization OUT Out Brightness output R7 Awv M rsv Maintenance rsv reserved Wire Colors according to DIN IEC 757 Synchronization Ground for the Synchronization SY-BK Black Receiver-Line ΒN Brown Red E+ Emitter-Line RD Grounding Switching Distance Reduction OG Orange YE SnR Yellov Rx+/- Ethernet Receive Path GN Green Tx+/- Ethernet Send Path BU Blue Interfaces-Bus A(+)/B(–) Emitted Light disengageable VT Violet GY La Grev Magnet activation WΗ White Mag RES PK Pink GNYE Green/Yellow Input confirmation Contactor Monitoring EDM

All dimensions in mm (1 mm = 0.03937 Inch)

