

Through-Beam Sensor for PET Selection

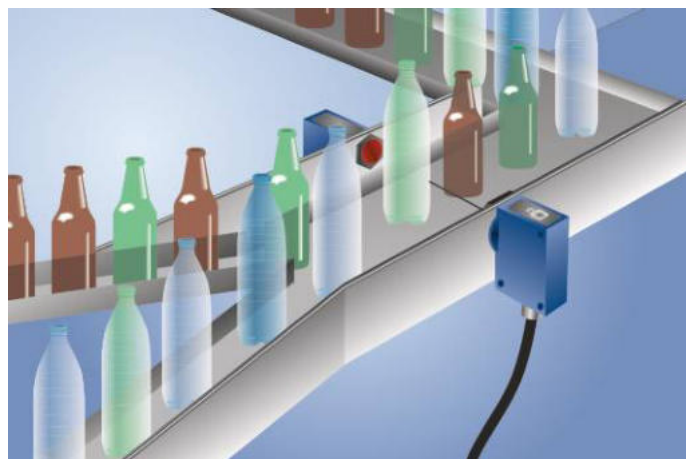
OERS948

Part Number



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

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.



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	10...30 V DC
Current Consumption (U _b = 24 V)	< 20 mA
Switching Frequency	150 Hz
Response Time	1,8 ms
Temperature Drift	< 10 %
Temperature Range	-25...60 °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.

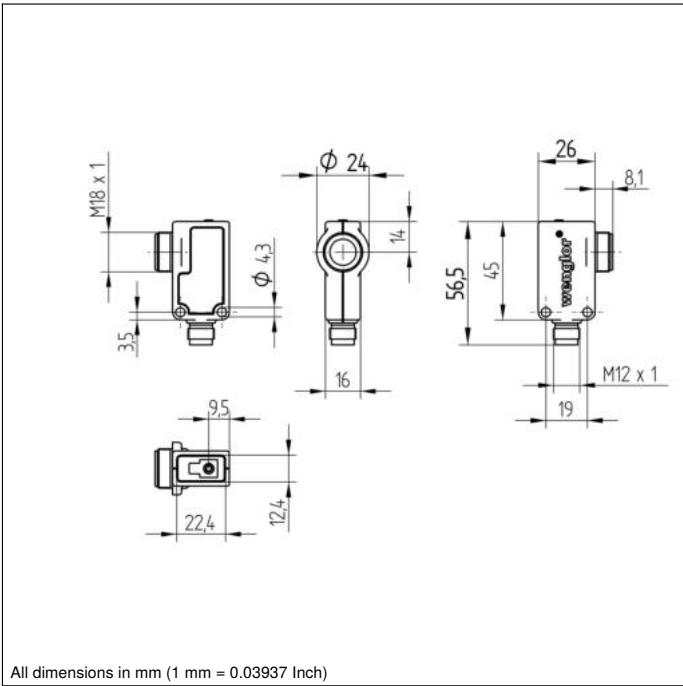
150 370

Suitable Emitter

OSRS946

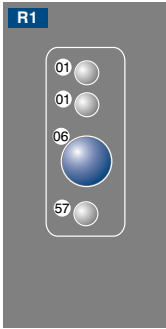
Complementary Products

Dust Extraction Tube STAUBTUBUS-01

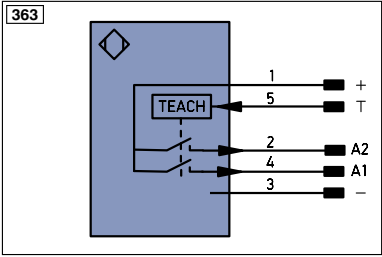


All dimensions in mm (1 mm = 0.03937 Inch)

Ctrl. Panel



01 = Switching Status Indicator
06 = Teach Button
57 = Alignment



Legend

+ Supply Voltage +	PT Platinum measuring resistor	ENAR5422 Encoder A/Ä (TTL)
- Supply Voltage 0 V	nc not connected	ENB5422 Encoder B/B (TTL)
~ Supply Voltage (AC Voltage)	U Test Input	ENa Encoder A
A Switching Output (NO)	Ü Test Input inverted	ENb Encoder B
Ä Switching Output (NC)	W Trigger Input	AMIN Digital output MIN
V Contamination/Error Output (NO)	W- Ground for the Trigger Input	AMAX Digital output MAX
V̄ Contamination/Error Output (NC)	O Analog Output	AOX Digital output OK
E Input (analog or digital)	O- Ground for the Analog Output	SY in Synchronization In
T Teach Input	BZ Block Discharge	SY OUT Synchronization OUT
Z Time Delay (activation)	AWV Valve Output	OLT Brightness output
S Shielding	a Valve Control Output +	M Maintenance
RxD Interface Receive Path	b Valve Control Output 0 V	rsv reserved
TxD Interface Send Path	SY Synchronization	Wire Colors according to DIN IEC 757
RDY Ready	SY- Ground for the Synchronization	BK Black
GND Ground	E+ Receiver-Line	BN Brown
CL Clock	S+ Emitter-Line	RD Red
E/A Output/Input programmable	± Grounding	OG Orange
IO-Link	SnR Switching Distance Reduction	YE Yellow
PoE Power over Ethernet	Rx+/- Ethernet Receive Path	GN Green
IN Safety Input	Tx+/- Ethernet Send Path	BU Blue
OSSD Safety Output	Bus Interfaces-Bus A(+)/B(-)	VT Violet
Signal Signal Output	La Emitted Light disengageable	GY Grey
BL_D+/- Ethernet Gigabit bidirect. data line (A-D)	Mag Magnet activation	WH White
EN0R5422 Encoder 0-pulse 0-0 (TTL)	RES Input confirmation	PK Pink
	EDM Contactor Monitoring	GNYE Green/Yellow

