

Through-Beam Sensor for PET Selection

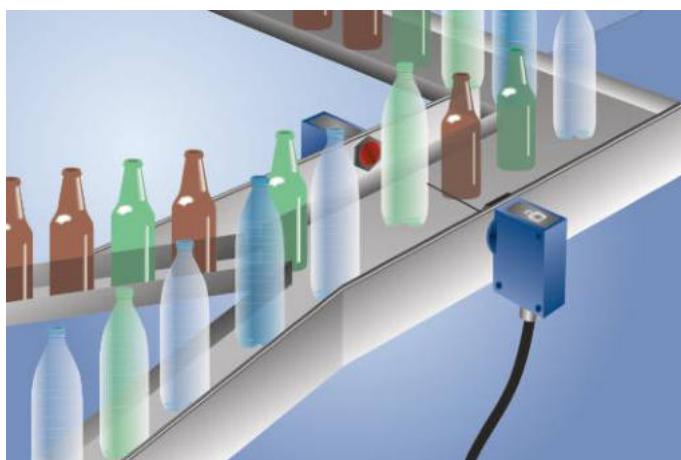
OSRS946

Part Number



- Compact housing
- Red light
- Simple installation
- Test input

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
Opening Angle	4 °

Electrical Data

Sensor Type	Emitter
Supply Voltage	10...30 V DC
Current Consumption (Ub = 24 V)	< 30 mA
Temperature Drift	< 10 %
Temperature Range	-25...60 °C
Reverse Polarity Protection	yes
Test input	yes
Protection Class	III
Housing Material	Plastic
Full Encapsulation	yes
Degree of Protection	IP67
Connection	M12 x 1; 4-pin
Connection Diagram No.	792
Control Panel No.	R2
Suitable Connection Equipment No.	2
Suitable Mounting Technology No.	150 370

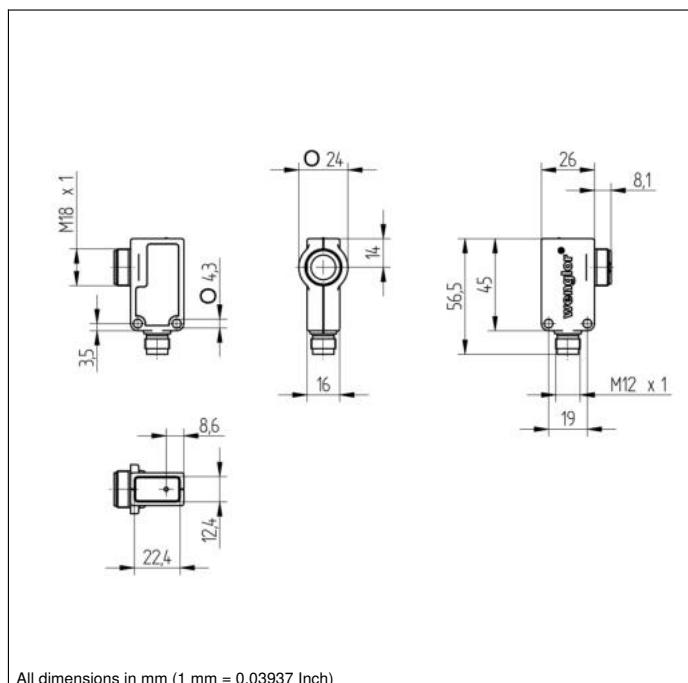
Suitable Receiver

OERS947

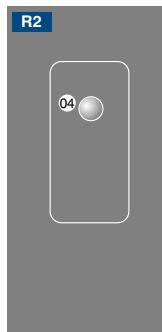
OERS948

Complementary Products

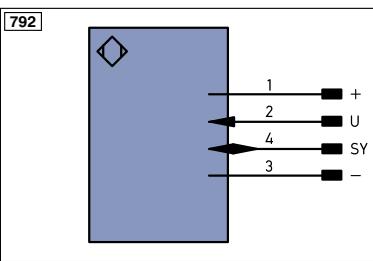
Dust Extraction Tube STAUBTUBUS-01



All dimensions in mm (1 mm = 0.03937 Inch)

Ctrl. Panel


04 = Function Indicator


Legend

+	Supply Voltage +	PT	Platinum measuring resistor
-	Supply Voltage 0 V	nc	not connected
~	Supply Voltage (AC Voltage)	U	Test Input
A	Switching Output (NO)	Ü	Test Input inverted
Ā	Switching Output (NC)	W	Trigger Input
V	Contamination/Error Output (NO)	W-	Ground for the Trigger Input
Ā	Contamination/Error Output (NC)	O	Analog Output
E	Input (analog or digital)	O-	Ground for the Analog Output
T	Teach Input	BZ	Block Discharge
Z	Time Delay (activation)	Awv	Valve Output
S	Shielding	a	Valve Control Output +
RxD	Interface Receive Path	b	Valve Control Output 0 V
TxD	Interface Send Path	SY	Synchronization
RDY	Ready	SY-	Ground for the Synchronization
GND	Ground	E+	Receiver-Line
CL	Clock	E-	Emitter-Line
E/A	Output/Input programmable	±	Grounding
IO-Link		SnR	Switching Distance Reduction
PoE	Power over Ethernet	Rx+/-	Ethernet Receive Path
IN	Safety Input	Tx+/-	Ethernet Send Path
SSD	Safety Output	Bus	Interfaces-Bus A(+)/B(-)
Signal	Signal Output	La	Emitted Light disengageable
Ethernet	Ethernet Gigabit bidirect. data line (A-D)	Mag	Magnet activation
Encoder	Encoder 0-pulse 0-0 (TTL)	RES	Input confirmation
		EDM	Contactor Monitoring

EN_{RS422} Encoder A/Ā (TTL)

EN_{BRS422} Encoder B/Ā (TTL)

ENA Encoder A

ENB Encoder B

AMIN Digital output MIN

AMAX Digital output MAX

AOK Digital output OK

SY IN Synchronization IN

SY OUT Synchronization OUT

OLT Brightness output

M Maintenance

rsv reserved

Wire Colors according to DIN IEC 757

BK Black

BN Brown

RD Red

OG Orange

YE Yellow

GN Green

BU Blue

VT Violet

GY Grey

WH White

PK Pink

GNYE Green/Yellow

