Through-Beam Sensor for PET Selection

OERS948

Part Number



- Compact housing
- Direct PET output
- 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		
ort Circuit and Overload Protection yes			
Reverse Polarity Protection	yes		
Protection Class	III		
Mechanical Data			
Setting Method	od 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)



