Reflex Sensor

TB06PC7K

Part Number

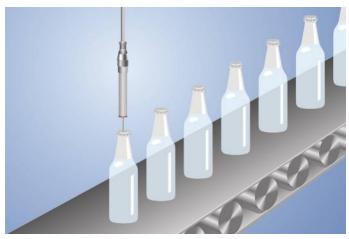


- Compact housing
- Contamination warning
- Infrared light

Technical Data

Optical Data		
Range	60 mm	
Switching Hysteresis	< 15 %	
Light Source	Infrared Light	
Service Life (T = +25 °C)	100000 h	
Max. Ambient Light	10000 Lux	
Spot Diameter	see Table 1	
Electrical Data		
Supply Voltage	1030 V DC	
Current Consumption (Ub = 24 V)	< 20 mA	
Switching Frequency	1800 Hz	
Response Time	270 µs	
Temperature Drift	< 10 %	
Temperature Range	-2560 °C	
Switching Output Voltage Drop	< 2,5 V	
PNP Switching Output/Switching Current	100 mA	
Residual Current Switching Output	< 50 µA	
Short Circuit Protection	yes	
Reverse Polarity Protection	yes	
Overload Protection	yes	
Protection Class	III	
Mechanical Data		
Housing Material	Stainless Steel	
Full Encapsulation	yes	
Degree of Protection	IP67	
Connection	M8 × 1; 4-pin	
Cable Length	20 cm	
PNP NO/NC switchable		
Connection Diagram No.	175	
Control Panel No.	B2	
Suitable Connection Technology No.	7	
Suitable Mounting Technology No.	200	

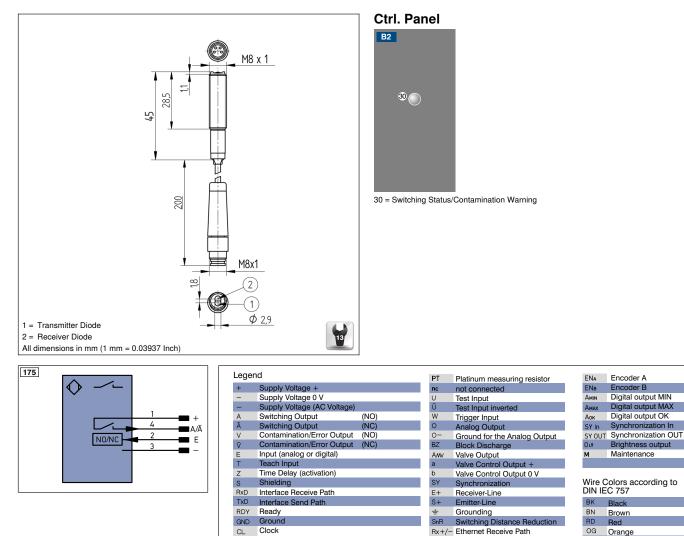
The transmitter and receiver in these sensors are located in a single housing. The sensor evaluates transmitted light reflected back from the object. The output is switched as soon as an object passes the selected range. Bright objects reflect more light than dark objects, and can thus be recognized from greater distances.



Complementary Products PNP-NPN Converter BG7V1P-N-2M

Photoelectronic Sensors





CL

E/A

0

PoF

IN

Output/Input program

BI_D+/- Ethernet Gigabit bidirect. data line (A-D) EN0rsuz Encoder 0-pulse 0-0 (TTL)

IO-Link

OSSD Safety Output

Signal Signal Output

Power over Eth

Safety Input

Table	1	

Detection Range	20 mm	40 mm	60 mm
Spot Diameter	3 mm	6 mm	9 mm

OG

GN

BU

VT

GY

WΗ

YE

Orange

Yello

Green

Blue

Violet

Grey White

PK Pink GNYE Green/Yellow

Rx+/- Ethernet Receive Path

Bus Interfaces-Bus A(+)/B(-) La Emitted Light disengages

Magnet activation

 Mag
 Magnet activation

 RES
 Input confirmation

 EDM
 Contactor Monitoring

 ENAssez
 Encoder A/Ā (TTL)

 ENBesez
 Encoder B/Ē (TTL)

Tx+/- Ethernet Send Path

Mag

