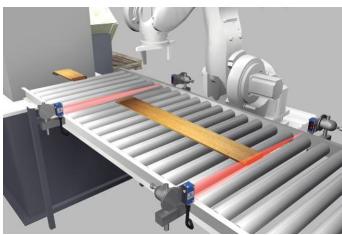
Through-Beam Sensor



- Condition monitoring
- High light intensity with large switching reserve
- IO-Link 1.1
- Test input for high operational reliability

The through-beam sensor works with red light as well as a transmitter and a receiver. Thanks to their high light intensity, the sensor provides a high degree of operational reliability even with interferences like steam, fog or dust. The transmitter can be deactivated using test input in order to test the functionality of the through-beam sensor. The IO-Link interface can be used to configure the sensor (PNP/NPN, NC/NO, switching distance), as well as for reading out switching statuses and signal values.



Technical Data

Optical Data		
Range	6000 mm	
Smallest Recognizable Part	see Table 1	
Switching Hysteresis	< 10 %	
Light Source	Red Light	
Service Life (T = +25 °C)	100000 h	
Max. Ambient Light	10000 Lux	
Electrical Data		
Sensor Type	Receiver	
Supply Voltage	1030 V DC	
Supply Voltage with IO-Link	1830 V DC	
Current Consumption (Ub = 24 V)	< 20 mA	
Switching Frequency	1000 Hz	
Switching Frequency (interference-free mode)	500 Hz	
Response Time	0,5 ms	
Response time (interference-free mode)	1 ms	
Temperature Drift	< 10 %	
Temperature Range	-4060 °C	
Switching Output Voltage Drop	< 2 V	
Switching Output/Switching Current	100 mA	
Residual Current Switching Output	< 50 µA	
Short Circuit and Overload Protection	yes	
Reverse Polarity Protection	yes	
Lockable	yes	
Interface	IO-Link V1.1	
Protection Class	III	
Mechanical Data		
Setting Method	Potentiometer	
Housing Material	Plastic	
Degree of Protection	IP67/IP68	
Connection	Cable, 3-wire, 2 m	
Optic Cover	PMMA	
Safety-relevant Data		
MTTFd (EN ISO 13849-1)	2111,25 a	
PNP NO		
IO-Link		
Connection Diagram No.	219	
Control Panel No.	1K1	
Suitable Mounting Technology No.	400	

Suitable Emitter

P1KS001

Complementary Products

IO-Link Master Software

Photoelectronic Sensors

PNG // smart



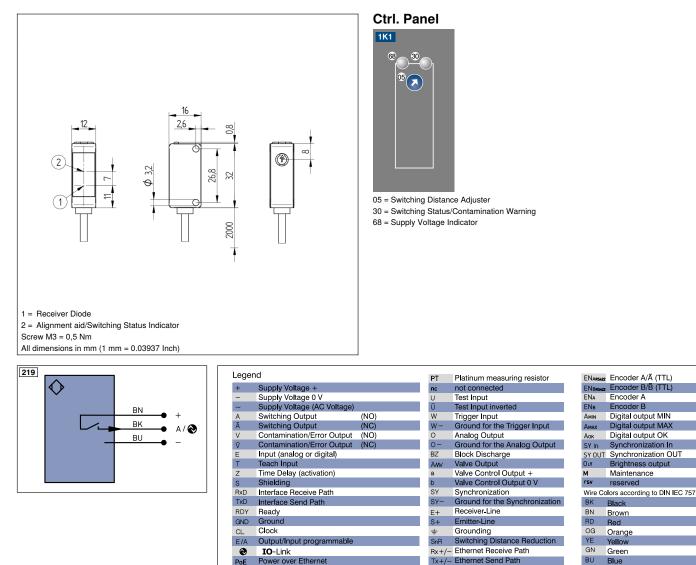


Table 1

La

Mag RES

EDM

Distance transmitter/receiver	1 m	2 m	6 m
Smallest Recognizable Part	4 mm	1 mm	1 mm

VT

GY

WH White

Violet

Grev

PK Pink GNYE Green/Yellow

Interfaces-Bus A(+)/B(-) Emitted Light disengageable

Magnet activation

Input confirmation Contactor Monitoring



IN

Safety Input

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

OSSD Safety Output

Signal Signal Output