Through-Beam Sensor

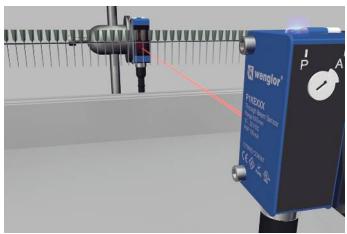
P1KS006 LASER





- Detect smallest parts until 0,6 mm
- IO-Link 1.1
- Test input for high operational reliability
- Very high switching frequency

The through-beam sensor works with a fine laser beam as well as a transmitter and a receiver. The collimated laser beam of laser class 1 detects objects, for instance, when conducting installation, feed or presence controls, starting at a size of just 0,6 millimeters. 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.



Optical Data			
Range	10000 mm		
Light Source	Laser (red)		
Wavelength	680 nm		
Service Life (T = +25 °C)	100000 h		
Laser Class (EN 60825-1)	1		
Light Spot Diameter	see Table 1		
Electrical Data			
Sensor Type	Emitter		
Supply Voltage	1030 V DC		
Current Consumption (Ub = 24 V)	< 15 mA		
Temperature Drift (-10 °C < Tu < 40 °C)	10 % *		
Temperature Range	-4060 °C		
Reverse Polarity Protection	yes		
Test input	yes		
Protection Class	III		
FDA Accession Number	1710976-001		
Mechanical Data			
Housing Material	Plastic		
Degree of Protection	IP67/IP68		
Connection	M12 × 1; 4-pin		
Cable Length	200 mm		
Optic Cover	PMMA		
Safety-relevant Data			
MTTFd (EN ISO 13849-1)	2993,84 a		
Connection Diagram No.	1018		
Control Panel No.	1K2		
Suitable Connection Equipment No.	2		
Suitable Mounting Technology No.	400		

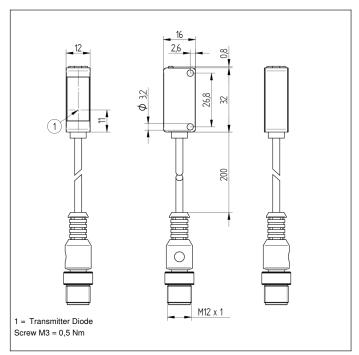
Suitable Receiver

P1KE013

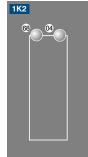
^{*} See operating instructions for further information

 $^{^{\}star}$ Temperature range with permanently installed cable, bending radius: > 20 mm





Ctrl. Panel



04 = Function Indicator 68 = Supply Voltage Indicator

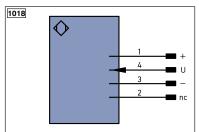


Table 1

Working Distance	1 m	6 m	10 m
Light Spot Diameter	2,5 mm	25 mm	40 mm











