

Through-Beam Sensor

P1KS004

PNG // smart



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

Optical Data

Range	6000 mm
Light Source	Red Light
Service Life (T = +25 °C)	100000 h
Light Spot Diameter	see Table 1

Electrical Data

Sensor Type	Emitter
Supply Voltage	10...30 V DC
Current Consumption (U _b = 24 V)	< 20 mA
Temperature Drift	< 10 %
Temperature Range	-40...60 °C
Reverse Polarity Protection	yes
Lockable	yes
Test input	yes
Protection Class	III

Mechanical Data

Housing Material	Plastic
Degree of Protection	IP67/IP68
Connection	M12 × 1; 4-pin
Cable Length	20 cm
Optic Cover	PMMA

Safety-relevant Data

MTTFd (EN ISO 13849-1)	3063,75 a
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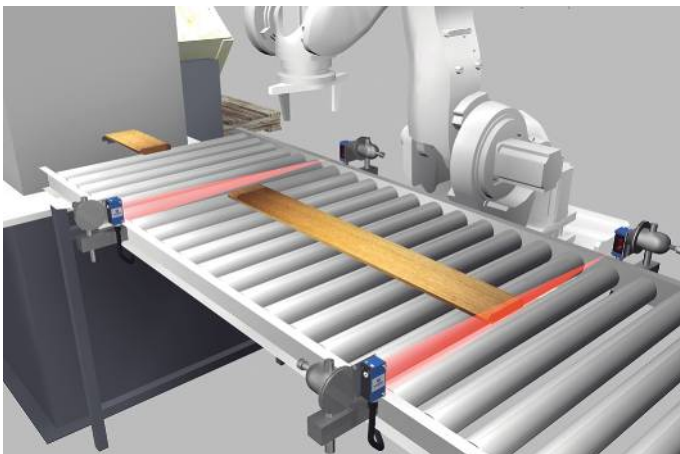
Connection Diagram No.	1018
Control Panel No.	1K2
Suitable Mounting Technology No.	400

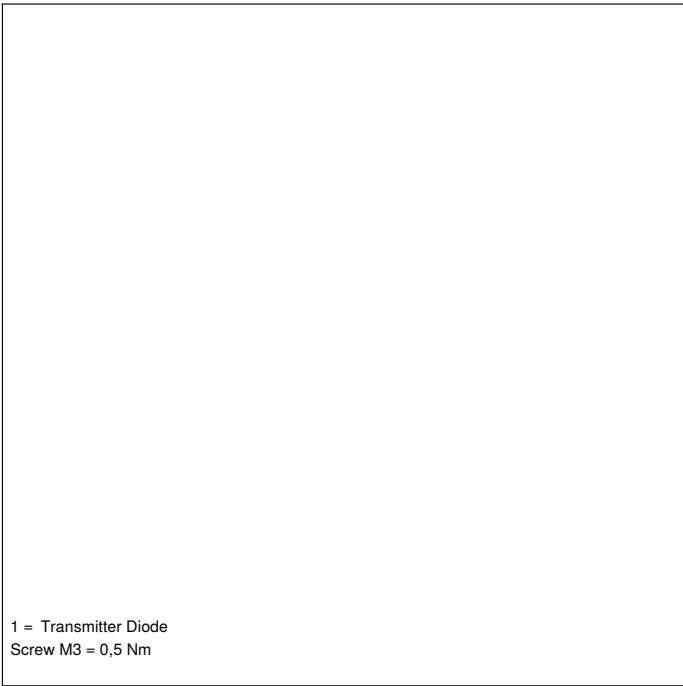
Suitable Receiver

P1KE011

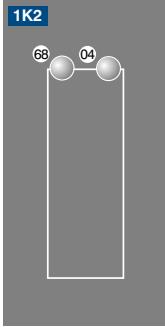
* Temperature range with permanently installed cable, bending radius: > 20 mm

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.





Ctrl. Panel



04 = Function Indicator
68 = Supply Voltage Indicator

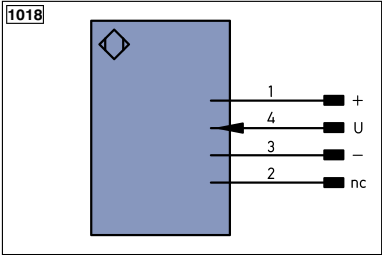


Table 1

Working Distance	1 m	2 m	6 m
Light Spot Diameter	70 mm	140 mm	500 mm