

TK55PA7

Part Number

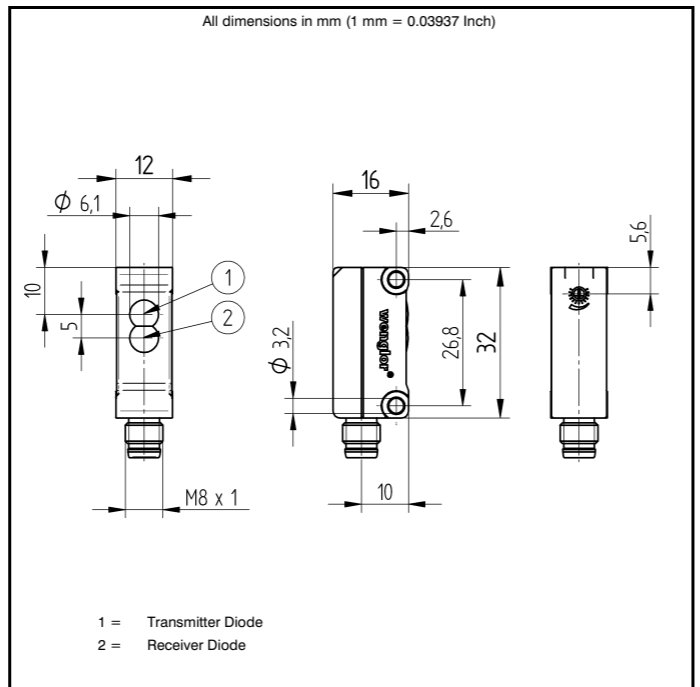
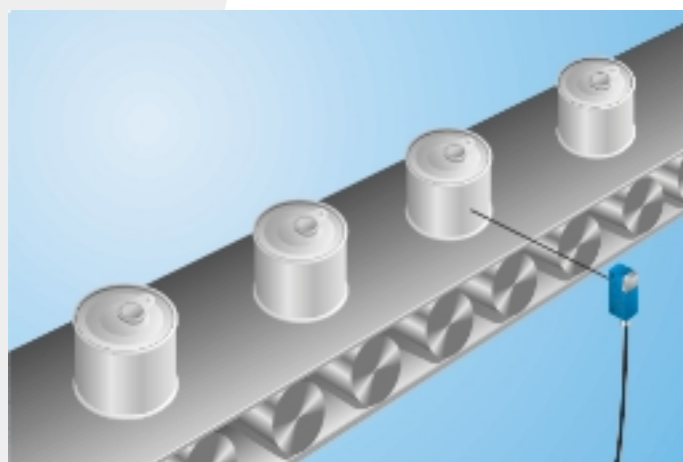


- Adjustable Detection Range
- Infrared Light
- Metal Plug
- Miniature Design

Technical Data

Optical Data	
Range	500 mm
Switching Hysteresis	< 15 %
Light Source	Infrared Light
Service Life (T = +25°C)	100000 h
max. Ambient Light	10000 Lux
Opening Angle	6 °
Light Spot Diameter	see Table 1
Electrical Data	
Supply Voltage	10...30 V DC
Current Consumption (U _b = 24V)	< 30 mA
Switching Frequency	333 Hz
Response Time	1500 μs
Temperature Drift	< 10 %
Temperature Range	-25...60 °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
Mechanical Data	
Housing	Plastic
Full Encapsulation	yes
Protection Mode	IP 67
Connection	M8 x 1
Protective Insulation, Rated Voltage	50 V

The transmitter and the receiver are integrated into 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.



Specifications are subject to change without notice
12/07

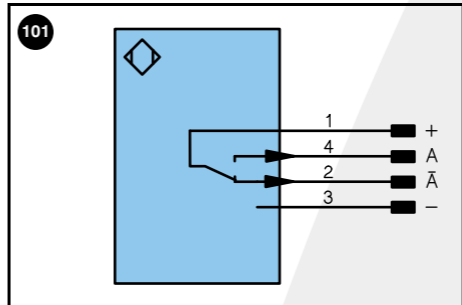
Plug Version

Part Number	TK55PA7
PNP NO/NC antivalent	●
Connection Diagram No.	101
Control Panel No.	K 4
Suitable Plug No.	7



Table 1

Range	100 mm	300 mm	500 mm
Light Spot Diameter	12 mm	30 mm	50 mm

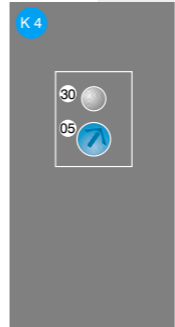


Legend			Wire colors according to DIN IEC 757		
+	Power supply "+"	U	Test input	BK	black
-	Power supply "0V"	W	Trigger input	BN	brown
-	Power supply (AC Voltage)	O	Analog output (1,2,3...)	RD	red
A	Switching output (1,2,3...)/ NO	O-	Ground for the analog output	OG	orange
A	Switching output (1,2,3...)/ NC	BZ	Block discharge	YE	yellow
V	Contamination / Error output (NC)	Aw	Valve output	GN	green
V	Contamination / Error output (NC)	a	Valve control output "+"	BU	blue
E	Input (analog or digital)	b	Valve control output "0V"	YT	violet
T	Teach input	SY	Synchronization	GY	grey
Z	Time delay (activation)	E+	Receiver-Line	WH	white
S	Shielding	S+	Emitter-Line	PK	pink
RxD	RS-232 receive path	φ	Grounding	GNYE	green yellow
TxD	RS-232 send path	S-R	Switching Distance Reduction		
RDY	Ready	USB+	USB data +		
GND	Ground	USB-	USB data -		
CL	Clock	Ba	Interfaces-Bus A(+)/B(-)		
		La	Emitted light disengageable		

Accessories

Mounting Bracket WK

Ctrl.Panel



05 = Switching Distance Adjuster
30 = Switching Status/Contamination Warning