

# TM55PCT2

Part Number

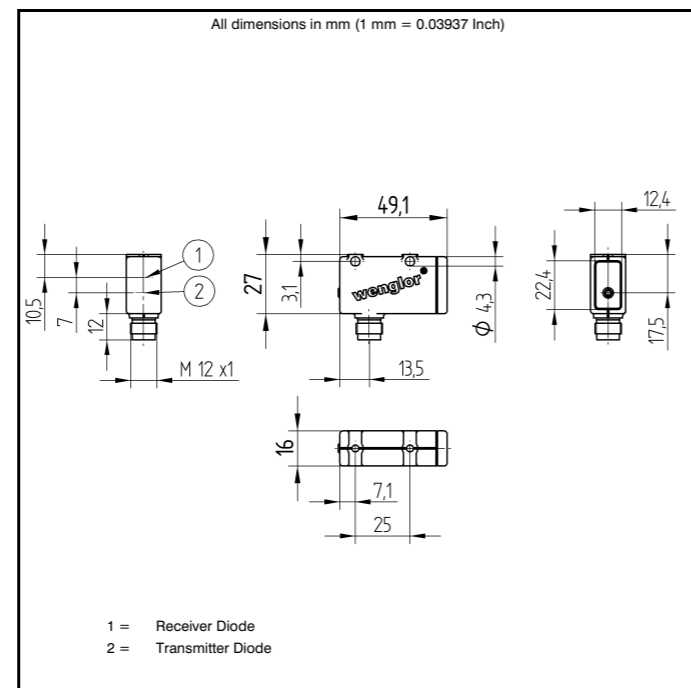
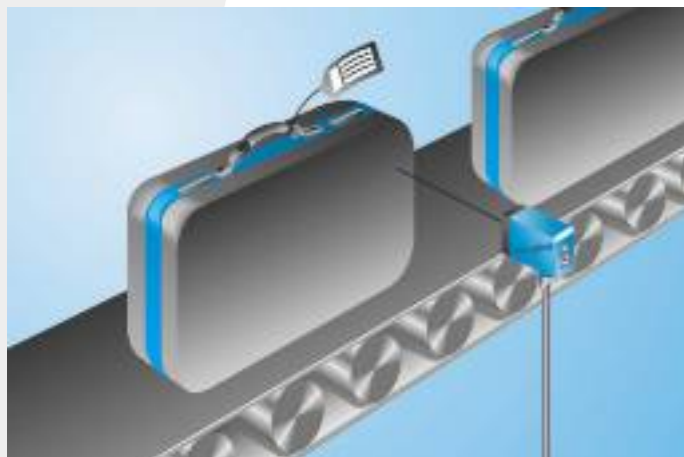


## Technical Data

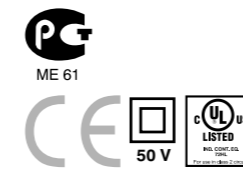
Optical Data	
Range	500 mm
Switching Hysteresis	< 15 %
Light Source	Infrared Light
Wave Length	880 nm
Service Life (T = +25°C)	100000 h
max. Ambient Light	10000 Lux
Opening Angle	12 °
Electrical Data	
Supply Voltage	10...30 V
Current Consumption (U <sub>b</sub> = 24V)	< 40 mA
Switching Frequency	1 kHz
Response Time	500 μs
On-/Off-Delay (RS-232)	0...5 s
Temperature Drift	< 10 %
Temperature Range	-25...60 °C
Switching Output Voltage Drop	< 2.5 V
PNP Switching Output/Switching Current	200 mA
Residual Current Switching Output	< 50 μA
Short Circuit Protection	yes
Reverse Polarity Protection	yes
Overload Protection	yes
Lockable	yes
Teach Mode	NT,MT
Mechanical Data	
Adjustment	Teach-In
Housing	Plastic
Full Encapsulation	yes
Degree of Protection	IP 67
Connection	M12 x 1
Protective Insulation, Rated Voltage	50 V

- Compact Housing
- Large Range
- Teach-In, external Teach-In, RS-232 Interface

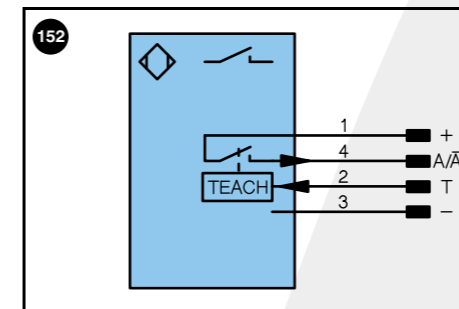
The transmitter and the receiver are integrated into a single housing. The sensor evaluates transmitted light reflected back from the object. The output is switched as soon as an object passes the selected range. Bright objects reflect more light than dark objects, and can thus be recognized from greater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



Specifications are subject to change without notice  
08/06



Plug Version	Part Number
PNP NO/NC switchable	●
RS-232 with Adapterbox	●
Connection Diagram No.	152
Control Panel No.	M 3
Suitable Plug No.	1

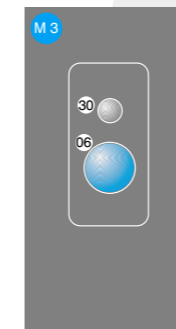


Legend			Wire colors according to DIN IEC 757		
+	Power supply "+"	U	Test input	BK	black
-	Power supply "0V"	W	Trigger input	BN	brown
~	Power supply (AC Voltage)	O	Analog output (1,2,3...)	RD	red
A	Switching output (1,2,3...) / NO	O-	Ground for the analog output	OG	orange
A	Switching output (1,2,3...) / NC	SZ	Block discharge	YE	yellow
V	Contamination / Error output (NO)	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"	VT	violet
T	Teach input	SY	Synchronization	GY	grey
Z	Time delay (activation)	E+	Receiver-Line	WH	white
S	Shielding	S+	Emitter-Line	PK	pink
Rd	RS-232 receive path	⚡	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(-)		
E/A	Output/Input programmable	La	Emitted light disengageable		

## Accessories

- Adapterbox A232
- Mounting Bracket WM2

## Ctrl. Panel



- 06 = Teach Button
- 30 = Switching Status/Contamination Warning