Reflex Sensor

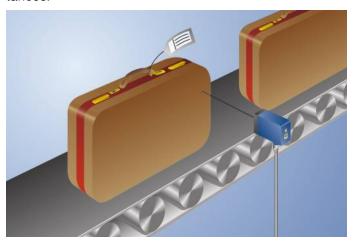
TM55PCT2

Part Number



- Compact housing
- Large detection range
- Teach-in, external teach-in

The transmitter and receiver in these sensors are located in 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.



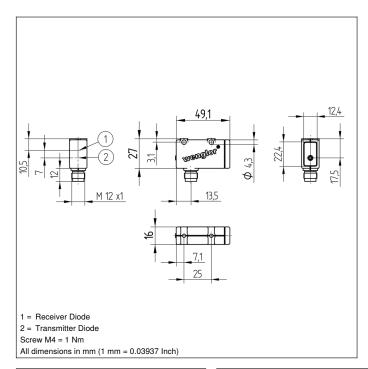
Technical Data

Optical Data							
Range	500 mm						
Switching Hysteresis	< 15 %						
Light Source	Infrared Light						
Wavelength	850 nm						
Service Life (T = +25 °C)	100000 h						
Max. Ambient Light	10000 Lux						
Opening Angle	12 °						
Electrical Data							
Supply Voltage	1030 V DC						
Current Consumption (Ub = 24 V)	< 40 mA						
Switching Frequency	1 kHz						
Response Time	500 μs						
On-/Off-Delay (RS-232)	05 s						
Temperature Drift	< 10 %						
Temperature Range	-2560 °C						
Switching Output Voltage Drop	< 2,5 V						
PNP Switching Output/Switching Current	200 mA						
Residual Current Switching Output	< 50 μΑ						
Short Circuit Protection	yes						
Reverse Polarity Protection	yes						
Overload Protection	yes						
Lockable	yes						
Feach Mode NT, MT							
Protection Class	III.						
Mechanical Data							
Setting Method	Teach-In						
Housing Material	Plastic						
Full Encapsulation	yes						
Degree of Protection	IP67						
Connection	M12 × 1; 4-pin						
PNP NO/NC switchable	•						
RS-232 with Adapterbox							
Connection Diagram No.	152						
Control Panel No.	M3						
Suitable Connection Equipment No.	2						
Suitable Mounting Technology No.	360						

Complementary Products

Adapterbox A232
PNP-NPN Converter BG2V1P-N-2M
Software



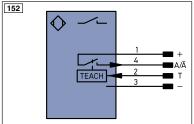


Ctrl. Panel



06 = Teach Button

30 = Switching Status/Contamination Warning



Legen	d		PT	Platinum measuring resistor	ENARS	Encoder A/Ā (TTL)
+	Supply Voltage +		nc	not connected	ENBRS	Encoder B/B (TTL)
-	Supply Voltage 0 V		U	Test Input	ENA	Encoder A
~	Supply Voltage (AC Voltage)		Ū	Test Input inverted	ENB	Encoder B
Α		O)	W	Trigger Input	Amin	Digital output MIN
Ā	Switching Output (N	C)	W-	Ground for the Trigger Input	Амах	Digital output MAX
V	Contamination/Error Output (N	O)	0	Analog Output	Аок	Digital output OK
V	Contamination/Error Output (N	C)	0-	Ground for the Analog Output	SY In	Synchronization In
E	Input (analog or digital)		BZ	Block Discharge	SY OL	T Synchronization OUT
Т	Teach Input		Awv	Valve Output	OLT	Brightness output
Z	Time Delay (activation)		a	Valve Control Output +	М	Maintenance
S	Shielding		b	Valve Control Output 0 V	rsv	reserved
RxD	Interface Receive Path		SY	Synchronization	Wire	Colors according to DIN IEC 757
TxD	Interface Send Path		SY-	Ground for the Synchronization	BK	Black
RDY	Ready		E+	Receiver-Line	BN	Brown
GND	Ground		S+	Emitter-Line	RD	Red
CL	Clock		÷	Grounding	OG	Orange
E/A	Output/Input programmable		SnR	Switching Distance Reduction	YE	Yellow
•	IO-Link		Rx+/-	Ethernet Receive Path	GN	Green
PoE	Power over Ethernet		Tx+/-	Ethernet Send Path	BU	Blue
IN	Safety Input		Bus	Interfaces-Bus A(+)/B(-)	VT	Violet
OSSD	Safety Output		La	Emitted Light disengageable	GY	Grey
Signal	Signal Output		Mag	Magnet activation	WH	White
BI_D+/-	Ethernet Gigabit bidirect, data lin	e (A-D)		Input confirmation	PK	Pink
ENors422	Encoder 0-pulse 0-0 (TTL)		EDM	Contactor Monitoring	GNY	Green/Yellow







