

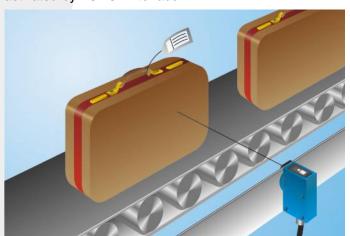
TR55PCT2

Part Number



- Compact Housing
- Easy to install
- Large Detection 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. The sensor is easy to install with its integrated M18 threaded fixation, and can be easily protected as well. Time delay can be activated by RS-232 interface.



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	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 μA
Short Circuit Protection	yes
Reverse Polarity Protection	yes
Overload Protection	yes
Lockable	yes
Teach Mode	NT,MT
Protection Class	III
Mechanical Data	
Adjustment	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
Suiting Connection Technology No.	2
Suiting Mounting Technology No.	150 370



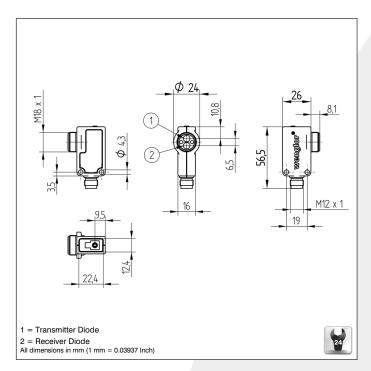


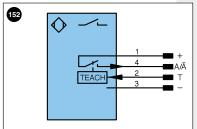










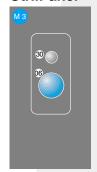


+	Supply Voltage +		U	Test Input	PoE	Power over Ethernet	
-	Supply Voltage 0 V		Ū	Test Input inverted			
~	Supply Voltage (AC Voltage)		W	Trigger Input			
Α	Switching Output ((NO)	0	Analog Output	14/	re Colors according to	
Ā	Switching Output ((NC)	0-	Ground for the Analog Output		DIN IEC 757	
٧	Contamination/Error Output ((NO)	BZ	Block Discharge	D1		
V	Contamination/Error Output ((NC)	Awv	Valve Output	BK	Black	
E	Input (analog or digital)		а	Valve Control Output +	BN	Brown	
Т	Teach Input		b	Valve Control Output 0 V	RD	Red	
Z	Time Delay (activation)		SY	Synchronization	OG	Orange	
S	Shielding		E+	Receiver-Line	YE	Yellow	
RxD	Interface Receive Path		S+	Emitter-Line	GN	Green	
TxD	Interface Send Path		±	Grounding	BU	Blue	
RDY	Ready		SnR	Switching Distance Reduction	VT	Violet	
GND	Ground		Rx+/-	Ethernet Receive Path	GY	Grey	
CL	Clock		Tx+/-	Ethernet Send Path	WH	White	
E/A	Output/Input programmable		Bus	Interfaces-Bus A(+)/B(-)	PK	Pink	
0	IO-Link		La	Emitted Light disengageable	GN'	YE Green Yellow	

Complementary Products

Adapterbox A232 Dust extraction tube STAUBTUBUS-01

Ctrl.Panel



06 = Teach Button 30 = Switching Status/Contamination Warning