Reflex Sensor

TR55PCT2 Part Number

- Compact housing
- Large detection range
- Simple installation
- 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.

The M-18 threaded fixation allows for mechanical protection and easy installation. Time delay can be activated via the RS-232 interface.

Technical Data

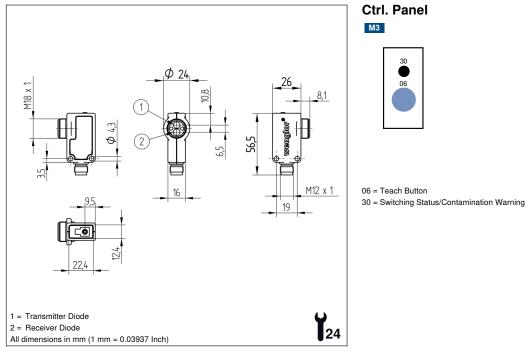
Optical Data			
Range	500 mm		
Switching Hysteresis	< 15 %		
Light Source	Infrared Light		
Wavelength	880 nm		
Service Life (T = +25 °C)	100000 h		
Max. Ambient Light	10000 Lux		
Opening Angle	12 °		
Electrical Data			
Supply Voltage	1030 V DC		
Current Consumption (Ub = 24 V)	< 40 mA		
Switching Frequency	1 kHz		
Response Time	500 <i>µ</i> s		
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			
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	Ó		
Connection Diagram No.	152		
Control Panel No.	M3		
Suitable Connection Equipment No.	2		
Suitable Mounting Technology No.	150 370		

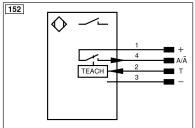
Complementary Products

Adapterbox A232 Dust Extraction Tube STAUBTUBUS-01 PNP-NPN Converter BG2V1P-N-2M Software

Photoelectronic Sensors







Legend							
+	Supply Voltage +	nc	Not connected	ENBRS422	Encoder B/B (TTL)		
-	Supply Voltage 0 V	U	Test Input	ENA	Encoder A		
~	Supply Voltage (AC Voltage)	Ū	Test Input inverted	ENв	Encoder B		
A	Switching Output (NO)	W	Trigger Input	Amin	Digital output MIN		
Ā	Switching Output (NC)	W-	Ground for the Trigger Input	Amax	Digital output MAX		
V	Contamination/Error Output (NO)	0	Analog Output	Аок	Digital output OK		
V	Contamination/Error Output (NC)	0-	Ground for the Analog Output	SY In	Synchronization In		
E	Input (analog or digital)	BZ	Block Discharge	SY OUT	Synchronization OUT		
Т	Teach Input	Amv	Valve Output	Olt	Brightness output		
Z	Time Delay (activation)	а	Valve Control Output +	M	Maintenance		
S	Shielding	b	Valve Control Output 0 V	rsv	Reserved		
RxD	Interface Receive Path	SY	Synchronization	Wire Colo	ors according to DIN IEC 60757		
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		
0	IO-Link	Rx+/-	Ethernet Receive Path	GN	Green		
PoE	ower 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 line (A-D)	RES	Input confirmation	PK	Pink		
EN0 RS422	Encoder 0-pulse 0/0 (TTL)	EDM	Contactor Monitoring	GNYE	Green/Yellow		
PT	Platinum measuring resistor	ENARS422	Encoder A/Ā (TTL)				

