Reflex Sensor

TO22PB3

Part Number

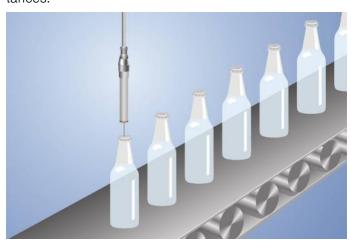


- Adjustable detection range
- Compact housing

Technical Data

Technical Data					
Optical Data					
Range	200 mm				
Switching Hysteresis	< 15 %				
Light Source	Infrared Light				
Service Life (T = +25 °C)	100000 h				
Risk Group (EN 62471)	1				
Max. Ambient Light	10000 Lux				
Opening Angle 12 °					
Electrical Data					
Supply Voltage	1030 V DC				
Current Consumption (Ub = 24 V)	< 40 mA				
Switching Frequency	800 Hz				
Response Time	650 μs				
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				
Protection Class	III				
Mechanical Data					
Setting Method	Potentiometer				
Housing Material	CuZn, nickel-plated				
Full Encapsulation	yes				
Degree of Protection	IP67				
Connection	M12 × 1; 4-pin				
PNP NO	•				
Connection Diagram No.	1021				
Control Panel No.	02				
Suitable Connection Technology No.	2				
Suitable Mounting Technology No.	170				

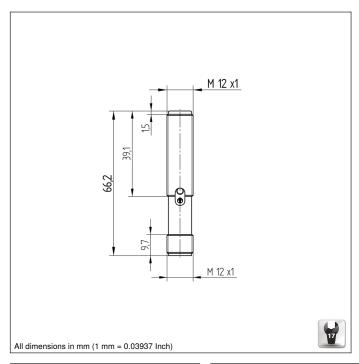
The transmitter and receiver in these sensors are located in a single housing. The sensor evaluates transmitted light reflected back from the object. The output is switched as soon as an object passes the selected range. Bright objects reflect more light than dark objects, and can thus be recognized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



Complementary Products

PNP-NPN Converter BG2V1P-N-2M

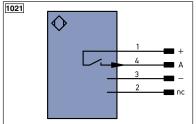




Ctrl. Panel



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



Legen	d		PŤ	Platinum measuring resistor	ENA	Encoder A	
+	Supply Voltage +		nc	not connected	ENв	Encoder B	
-	Supply Voltage 0 V		U	Test Input	Amin	Digital output MIN	
~	Supply Voltage (AC Voltage)		Ū	Test Input inverted	Амах	Digital output MAX	
Α	Switching Output (NO)		W	Trigger Input	Аок	Digital output OK	
Ā	Switching Output (NC)		0	Analog Output	SY In	Synchronization In	
V	Contamination/Error Output (NO)		0-	Ground for the Analog Output	SY OUT	Synchronization OUT	
V	Contamination/Error Output (NC)		BZ	Block Discharge	OLT	Brightness output	
E	Input (analog or digital)		Awv	Valve Output	М	Maintenance	
Т	Teach Input		а	Valve Control Output +			
Z	Time Delay (activation)		b	Valve Control Output 0 V			
S	Shielding		SY	Synchronization	Wire C	Wire Colors according to	
RxD	Interface Receive Path		E+	Receiver-Line	DIN IE	DIN IEC 757	
TxD	Interface Send Path		S+	Emitter-Line	BK	Black	
RDY	Ready		÷	Grounding	BN	Brown	
GND	Ground		SnR	Switching Distance Reduction	RD	Red	
CL	Clock		Rx+/-	Ethernet Receive Path	OG	Orange	
E/A	Output/Input programmable		Tx+/-	Ethernet Send Path	YE	Yellow	
•	IO-Link		Bus	Interfaces-Bus A(+)/B(-)	GN	Green	
PoE	Power over Ethernet		La	Emitted Light disengageable	BU	Blue	
IN	Safety Input		Mag	Magnet activation	VT	Violet	
OSSD	Safety Output		RES	Input confirmation	GY	Grey	
Signal	Signal Output		ED M	Contactor Monitoring	WH	White	
BI_D+/-	Ethernet Gigabit bidirect. data line (A-	D)	ENARS422	Encoder A/Ā (TTL)	PK	Pink	
	Encoder 0-pulse 0-0 (TTL)			Encoder B/B (TTL)	GNYE	Green/Yellow	





