Reflex Sensor

TO22PB3

Part Number



- Adjustable Detection Range
- Compact Housing

Technical Data

recililical 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				
esponse Time 650 μ 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				
ort Circuit Protection yes					
Reverse Polarity Protection yes					
Overload Protection yes					
Protection Class	III				
Mechanical Data					
Housing Material	CuZn, nickel-plated				
Full Encapsulation	yes				
Degree of Protection	IP67				
Connection	M12 × 1; 4-pin				
PNP NO	•				
Connection Diagram No.	102				
Control Panel No.	02				
Suiting Connection Technology No.	2				
Suiting 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.





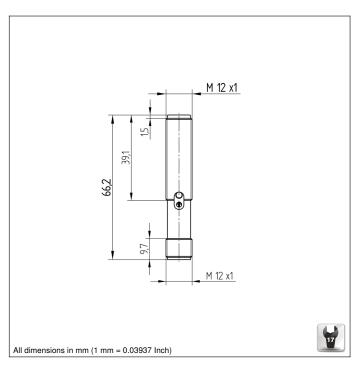


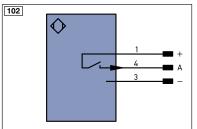












+	Supply Voltage +		nc	not connected		
-	Supply Voltage 0 V		U	Test Input		
~	Supply Voltage (AC Voltage)		Ū	Test Input inverted		
١	Switching Output	(NO)	W	Trigger Input		
Ĭ.	Switching Output	(NC)	0	Analog Output		
/	Contamination/Error Output	(NO)	0-	Ground for the Analog Output		
7	Contamination/Error Output	(NC)	BZ	Block Discharge		
	Input (analog or digital)		AMV	Valve Output	Wire Colors according to DIN IEC 757	
-	Teach Input		а	Valve Control Output +		
:	Time Delay (activation)		b	Valve Control Output 0 V		
;	Shielding		SY	Synchronization	BK	Black
RxD	Interface Receive Path		E+	Receiver-Line	BN	Brown
xD	Interface Send Path		S+	Emitter-Line	RD	Red
RDY	Ready		+	Grounding	OG	Orange
SND	Ground		SnR	Switching Distance Reduction	YE	Yellow
CL	Clock		Rx+/-	Ethernet Receive Path	GN	Green
:/A	Output/Input programmable		Tx+/-	Ethernet Send Path	BU	Blue
0	IO-Link		Bus	Interfaces-Bus A(+)/B(-)	VT	Violet
oE	Power over Ethernet		La	Emitted Light disengageable	GY	Grey
V	Safety Input		Mag	Magnet activation	WH	White
ISSD	Safety Output		RES	Input confirmation	PK	Pink
	Signal Output		EDM	Contactor Monitoring	GNYE	Green Yellow

Ctrl.Panel



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