Through-Beam Sensor

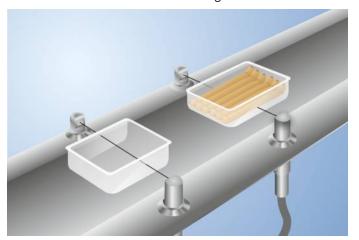
P1GE001

Part Number



- External teach-in
- Hygienic design makes it easy to clean
- Made with food safe materials that are FDA approved
- Waterproof (IP68/IP69K)

InoxSens is the hygiene series from wenglor. The innovative design of InoxSens sensors allows contamination and cleaning agents to flow off by themselves. A variety of components form a complete system which integrates seamlessly into the machine. The laser welded stainless steel housing made of V4A (1.4404/316L) is corrosion-free and resistant to cleaning agents. Gapfree mounting with InoxLock and the captive optics further contribute to these sensors' optimal suitability for cleaning-heavy environments. The configuration of the InoxSens sensors are made through external teach-in.



Technical Data

Optical Data				
Range	4000 mm			
Switching Hysteresis	< 15 %			
Light Source	Red Light			
Service Life (T = +25 °C)	100000 h			
Max. Ambient Light	10000 Lux			
Opening Angle	3 °			
Electrical Data				
Sensor Type	Receiver			
Supply Voltage	1030 V DC			
Current Consumption (Ub = 24 V)	< 40 mA			
Switching Frequency	500 Hz			
Response Time	1 ms			
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 and Overload Protection	yes			
Reverse Polarity Protection	yes			
Teach Mode	NT, MT, XT			
Protection Class	III			
Mechanical Data				
Setting Method	Teach-In			
Housing Material	Stainless Steel 316L			
Degree of Protection	IP68/IP69K			
Connection	M12 × 1; 4-pin			
Optic Cover	PMMA (FDA)			
Ecolab	yes			
PNP NO/NC switchable	•			
RS-232 with Adapterbox				
Connection Diagram No.	152			
Control Panel No.	llo1			
Suitable Connection Equipment No.	2			
Suitable Mounting Technology No.	140 490			

InoxSens

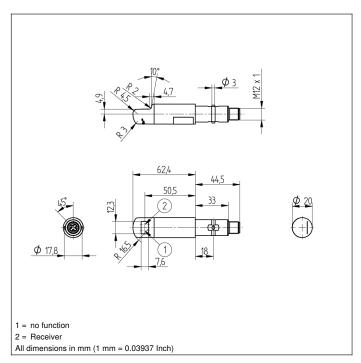
Suitable Emitter

P1GE002

Complementary Products

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

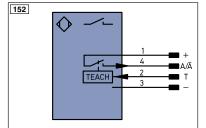




Optic



- 01 = Switching Status Indicator
- 02 = Contamination Warning



Larend							
Legen	<u>u</u>	PT	Platinum measuring resistor		Encoder A/Ā (TTL)		
+	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	ENB	Encoder B		
Α	Switching Output (NO)	W	Trigger Input	Amin	Digital output MIN		
Ā	Switching Output (NC)	W -	Ground for the Trigger Input	Амах	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	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 Co	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		
0	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 line (A-D)	RES	Input confirmation	PK	Pink		
	Encoder 0-pulse 0-0 (TTL)	EDM	Contactor Monitoring	GNYE	Green/Yellow		









