

Through-Beam Sensor

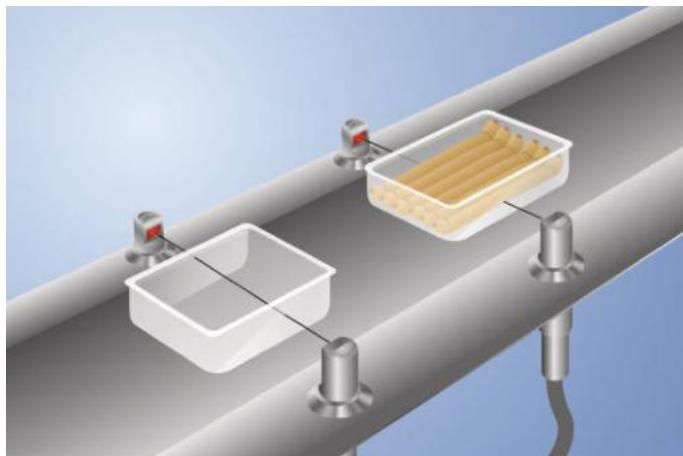
OEII403C0203

Part Number



- **Hygienic design makes it easy to clean**
- **Made with food safe materials that are FDA approved**
- **Touch teach-in, external teach-in**
- **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. Gap-free mounting with InoxLock and the captive optics further contribute to these sensors' optimal suitability for cleaning-heavy environments. The InoxSens sensors are set up with the help of touch teach-in and is made possible by the hermetically sealed housing.



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	10...30 V DC
Current Consumption (Ub = 24 V)	< 40 mA
Switching Frequency	500 Hz
Response Time	1 ms
Temperature Drift	< 10 %
Temperature Range	-25...60 °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 x 1; 4-pin
Optic Cover	Glass
Material Control Panel	PC (FDA)
PNP NC	
RS-232 with Adapterbox	
Connection Diagram No.	152
Control Panel No.	II1
Suitable Connection Equipment No.	2
Suitable Mounting Technology No.	140 490

Suitable Emitter

OSII403Z0203

Complementary Products

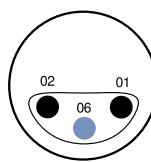
Adapterbox A232

PNP-NPN Converter BG2V1P-N-2M

Software

Ctrl. Panel

111

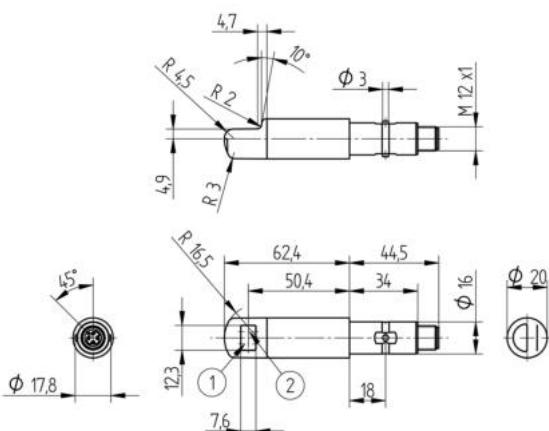


01 = Switching Status Indicator
02 = Contamination Warning
06 = Teach Button

1 = no function

2 = Receiver

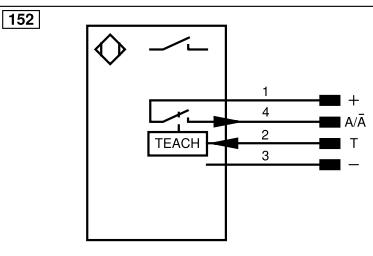
All dimensions in mm (1 mm = 0.03937 Inch)



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Legend						
+	Supply Voltage +	nc	Not connected	EN _{RS422}	Encoder B/̄B (TTL)	
-	Supply Voltage 0 V	U	Test Input	ENA	Encoder A	
~	Supply Voltage (AC Voltage)	Ü	Test Input inverted	ENb	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)	O	Analog Output	Aok	Digital output OUT	
ĀV	Contamination/Error Output (NC)	O-	Ground for the Analog Output	SY IN	Synchronization IN	
E	Input (analog or digital)	BZ	Block Discharge	SY OUT	Synchronization OUT	
T	Teach Input	AMV	Valve Output	OLT	Brightness output	
Z	Time Delay (activation)	a	Valve Control Output +	M	Maintenance	
S	Shielding	b	Valve Control Output 0 V	rsv	Reserved	
RxD	Interface Receive Path	SY	Synchronization			Wire Colors 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	
Io-L	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	
BL_D+/-	Ethernet Gigabit bidirect. data line (A-D)	RES	Input confirmation	PK	Pink	
EN _{RS422}	Encoder 0-pulse 0/̄0 (TTL)	EDM	Contactor Monitoring	GNYE	Green/Yellow	
PT	Platinum measuring resistor	FN _{RS422}	Encoder A/Ā (TTL)			