### Reflex Sensor with Background Suppression

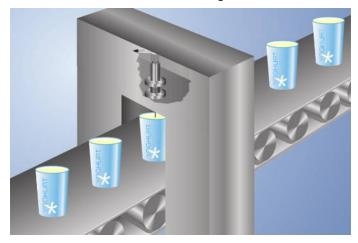
# OHI122C0103

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	120 mm			
Adjustable Range	30120 mm			
Switching Hysteresis	< 5 %			
Light Source	Red Light			
Service Life (T = +25 °C)	100000 h			
Max. Ambient Light	10000 Lux			
Light Spot Diameter	see Table 1			
Electrical Data				
Supply Voltage	1030 V			
Current Consumption (Ub = 24 V)	< 30 mA			
Switching Frequency	600 Hz			
Response Time	800 <i>µ</i> s			
Temperature Drift	< 10 %			
Temperature Range	-2560 °C			
Switching Output Voltage Drop	< 2,5 V			
PNP Switching Output/Switching Current	200 mA			
Short Circuit Protection	yes			
Reverse Polarity Protection	yes			
Overload Protection	yes			
Lockable	yes			
Teach Mode	HT, VT			
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)			
PNP NO/NC switchable				
RS-232 with Adapterbox				
Connection Diagram No.	152			
Control Panel No.	114			
Suitable Connection Equipment No.	2			
Suitable Mounting Technology No.	140 490			

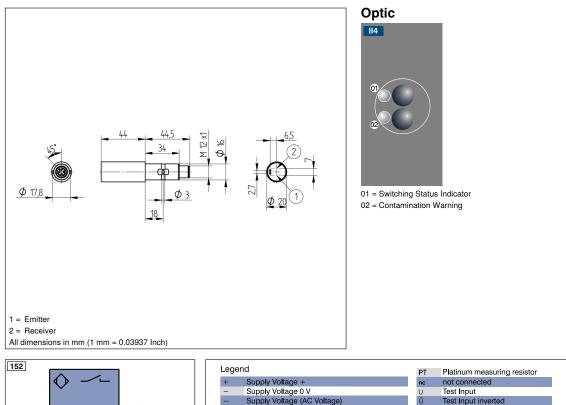
#### **Complementary Products**

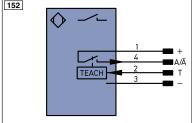
Adapterbox A232 PNP-NPN Converter BG2V1P-N-2M Software

## **Photoelectronic Sensors**

#### InoxSens







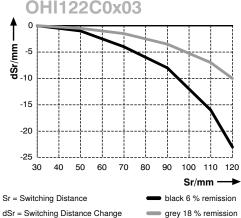
Legen	d		PT	Platinum measuring resistor	ENARS422	Encoder A/Ā (TTL)
+	Supply Voltage +		nc	not connected	ENBR5422	Encoder B/B (TTL)
-	Supply Voltage 0 V		U	Test Input	ENA	Encoder A
~	Supply Voltage (AC Voltage)		Ū	Test Input inverted	ENв	Encoder B
А	Switching Output	(NO)	W	Trigger Input	AMIN	Digital output 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)		а	Valve Control Output +	м	Maintenance
S	Shielding		b	Valve Control Output 0 V	rsv	reserved
RxD	Interface Receive Path		SY	Synchronization	Wire Co	lors 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
۲	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
ENO RS422	Encoder 0-pulse 0-0 (TTL)	. ,	EDM	Contactor Monitoring	GNYE	Green/Yellow

## Table 1

Detection Range	30 mm	100 mm	120 mm
Light Spot Diameter	2,5 × 7 mm	2,5 × 2,5 mm	3 × 3 mm

## **Switching Distance Deviation**

Typical characteristic curve based on white, 90 % remission



Specifications are subject to change without notice



dSr = Switching Distance Change