OTII802C0203

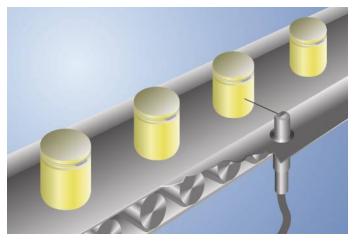
Part Number

InoxSens



- 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. Gapfree 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.



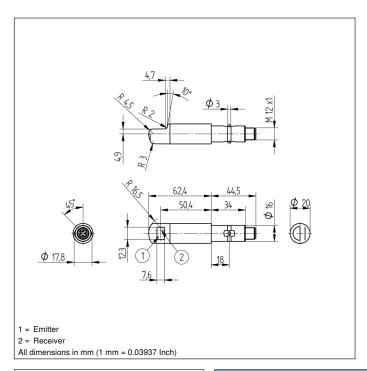
Technical Data

Range 800 mm Switching Hysteresis < 15 % Light Source Infrared Light Wavelength 880 nm Service Life (T = +25 °C) 100000 h Max. Ambient Light 10000 Lux Light Spot Diameter see Table Electrical Data Supply Voltage 1030 V Current Consumption (Ub = 24 V) < 40 mA Switching Frequency 1600 Hz Response Time 313 µs On-/Off-Delay (RS-232) 05 s Temperature Drift < 5 % Temperature Range -2560 °C Switching Output Voltage Drop < 2,5 V PNP Switching Output/Switching Current 200 mA Short Circuit Protection yes Verload Protection yes Coverload Protection yes Teach Mode NT, MT Protection Class III Mechanical Data Setting Method Teach-In Housing Material Stainless steel 316L Degree of Protection PC (FDA) Connection Optic Cover Glass Material Control Panel PC (FDA) Ecolab yes PNP NO/NC switchable RS-232 with Adapterbox Connection Diagram No. Control Panel No. Suitable Connection Equipment No. Suitable Connection Equipment No. Suitable Connection Equipment No. Suitable Mounting Technology No. 140 490	Optical Data				
Light Source	Range	800 mm			
Wavelength Service Life (T = +25 °C) 100000 h Max. Ambient Light 10000 Lux Light Spot Diameter See Table Electrical Data Supply Voltage 1030 V Current Consumption (Ub = 24 V) Response Time 313 µs On-/Off-Delay (RS-232) Temperature Drift Temperature Range Switching Output Voltage Drop PNP Switching Output/Switching Current Short Circuit Protection Reverse Polarity Protection Ves Ves Teach Mode Teach Mode Teach-In Suting Material Degree of Protection Phy Policy Cover Glass Material Control Panel Ecolab PNP NO/NC switchable RS-232 with Adapterbox Connection Diagram No. 152 Control Panel No. Suitable Connection Equipment No.	Switching Hysteresis	< 15 %			
Service Life (T = +25 °C) 100000 h Max. Ambient Light 10000 Lux Light Spot Diameter see Table Electrical Data Supply Voltage 1030 V Current Consumption (Ub = 24 V) < 40 mA Switching Frequency 1600 Hz Response Time 313 µs On-/Off-Delay (RS-232) 05 s Temperature Drift < 5 % Temperature Range -2560 °C Switching Output Voltage Drop < 2,5 V PNP Switching Output/Switching Current 200 mA Short Circuit Protection yes Overload Protection yes Teach Mode NT, MT Protection Class III Mechanical Data Setting Method Teach-In Housing Material Stainless steel 316L Degree of Protection P	Light Source	Infrared Light			
Max. Ambient Light 10000 Lux Light Spot Diameter see Table Electrical Data	Wavelength	880 nm			
Light Spot Diameter Flectrical Data Supply Voltage Current Consumption (Ub = 24 V) Switching Frequency Response Time On-/Off-Delay (RS-232) Temperature Drift Temperature Range Switching Output Voltage Drop PNP Switching Output/Switching Current Short Circuit Protection Querous Protection Ves Teach Mode Teach Mode Teach Mode NT, MT Protection Class III Mechanical Data Setting Method Teach-In Housing Material Degree of Protection Optic Cover Material Control Panel Ecolab PNP NO/NC switchable RS-232 with Adapterbox Connection Equipment No. Suitable Connection Equipment No. In Manual Value (Appendix No.) In Manual Value (Appendix No.) Suitable Connection Equipment No. In Manual Value (Appendix No.) A value (A	Service Life (T = +25 °C)	100000 h			
Electrical Data Supply Voltage 1030 V Current Consumption (Ub = 24 V) < 40 mA Switching Frequency 1600 Hz Response Time 313 µs On-/Off-Delay (RS-232) 05 s Temperature Drift < 5 % 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 NT, MT Protection Class III Mechanical Data Setting Method Teach-In Housing Material Stainless steel 316L Degree of Protection IP68/IP69K Connection Optic Cover Glass Material Control Panel PC (FDA) Ecolab yes PNP NO/NC switchable RS-232 with Adapterbox Connection Equipment No. 152 Control Panel No. Suitable Connection Equipment No.	Max. Ambient Light	10000 Lux			
Supply Voltage Current Consumption (Ub = 24 V) Switching Frequency Response Time On-/Off-Delay (RS-232) Temperature Drift Temperature Range -2560 °C Switching Output Voltage Drop PNP Switching Output/Switching Current Short Circuit Protection Reverse Polarity Protection yes Ves Teach Mode Teach Mode NT, MT Protection Class III Mechanical Data Setting Method Teach-In Housing Material Degree of Protection Optic Cover Material Control Panel Ecolab PNP NO/NC switchable RS-232 with Adapterbox Connection Equipment No. Suitable Connection Equipment No.	Light Spot Diameter	see Table			
Current Consumption (Ub = 24 V) Switching Frequency Response Time On-/Off-Delay (RS-232) Temperature Drift Temperature Range -2560 °C Switching Output Voltage Drop PNP Switching Output/Switching Current Short Circuit Protection Versource Polarity Protection Versource Polarity Protection Versource Protection Ves Teach Mode NT, MT Protection Class III Mechanical Data Setting Method Teach-In Housing Material Degree of Protection Potic Cover Glass Material Control Panel Ecolab PNP NO/NC switchable RS-232 with Adapterbox Connection Diagram No. Control Panel No. Suitable Connection Equipment No.	Electrical Data				
Switching Frequency Response Time On-/Off-Delay (RS-232) Temperature Drift < 5 % Temperature Range -2560 °C Switching Output Voltage Drop PNP Switching Output/Switching Current Short Circuit Protection Severse Polarity Protection Ves Ves Verload Protection Ves	Supply Voltage	1030 V			
Response Time On-/Off-Delay (RS-232) Temperature Drift < 5 % Temperature Range -2560 °C Switching Output Voltage Drop PNP Switching Output/Switching Current Short Circuit Protection Reverse Polarity Protection Ves Ves Verload Protection Ves Ves Ves Verload Protection Ves	Current Consumption (Ub = 24 V)	< 40 mA			
On-/Off-Delay (RS-232) Temperature Drift < 5 % Temperature Range -2560 °C Switching Output Voltage Drop PNP Switching Output/Switching Current Short Circuit Protection Reverse Polarity Protection Ves Verload Protection Lockable Teach Mode Protection Class III Mechanical Data Setting Method Housing Material Degree of Protection Optic Cover Glass Material Control Panel Ecolab PNP NO/NC switchable RS-232 with Adapterbox Connection Diagram No. Control Panel No. Suitable Connection Equipment No.	Switching Frequency	1600 Hz			
Temperature Drift Temperature Range Switching Output Voltage Drop PNP Switching Output/Switching Current Short Circuit Protection Reverse Polarity Protection Overload Protection Lockable Teach Mode Protection Class III Mechanical Data Setting Method Housing Material Degree of Protection Optic Cover Glass Material Control Panel Ecolab PNP NO/NC switchable RS-232 with Adapterbox Connection Diagram No. Control Panel No. Suitable Connection Equipment No.	Response Time	313 µs			
Temperature Range Switching Output Voltage Drop PNP Switching Output/Switching Current Short Circuit Protection Reverse Polarity Protection Ves Voerload Protection Ves	On-/Off-Delay (RS-232)	05 s			
Switching Output Voltage Drop PNP Switching Output/Switching Current Short Circuit Protection Reverse Polarity Protection Overload Protection Lockable Teach Mode Teach Mode NT, MT Protection Class III Mechanical Data Setting Method Teach-In Housing Material Degree of Protection Optic Cover Glass Material Control Panel Ecolab PNP NO/NC switchable RS-232 with Adapterbox Connection Diagram No. Control Panel No. Suitable Connection Equipment No.	Temperature Drift	< 5 %			
PNP Switching Output/Switching Current Short Circuit Protection Reverse Polarity Protection Overload Protection Lockable Lockable Teach Mode Teach Mode NT, MT Protection Class III Mechanical Data Setting Method Teach-In Housing Material Stainless steel 316L Degree of Protection IP68/IP69K Connection Optic Cover Glass Material Control Panel Ecolab PNP NO/NC switchable RS-232 with Adapterbox Connection Diagram No. I152 Control Panel No. Suitable Connection Equipment No.	Temperature Range	-2560 °C			
Short Circuit Protection Reverse Polarity Protection Overload Protection Lockable Teach Mode Teach Mode NT, MT Protection Class III Mechanical Data Setting Method Housing Material Degree of Protection Connection Optic Cover Glass Material Control Panel Ecolab PNP NO/NC switchable RS-232 with Adapterbox Connection Equipment No. Suitable Connection Equipment No.	Switching Output Voltage Drop	< 2,5 V			
Reverse Polarity Protection Overload Protection Lockable Teach Mode Teach Mode NT, MT Protection Class III Mechanical Data Setting Method Housing Material Degree of Protection Connection Optic Cover Glass Material Control Panel Ecolab PNP NO/NC switchable RS-232 with Adapterbox Connection Equipment No. Suitable Connection Equipment No.	PNP Switching Output/Switching Current	200 mA			
Overload Protection Lockable Teach Mode Teach Mode Protection Class III Mechanical Data Setting Method Housing Material Degree of Protection Connection Optic Cover Material Control Panel Ecolab PC (FDA) Ecolab PNP NO/NC switchable RS-232 with Adapterbox Connection Equipment No. Suitable Connection Equipment No.	Short Circuit Protection	yes			
Lockable yes Teach Mode NT, MT 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 Glass Material Control Panel PC (FDA) Ecolab yes PNP NO/NC switchable RS-232 with Adapterbox Connection Diagram No. Control Panel No. Suitable Connection Equipment No.	Reverse Polarity Protection	yes			
Teach Mode Protection Class III Mechanical Data Setting Method Housing Material Degree of Protection Connection Optic Cover Material Control Panel Ecolab PNP NO/NC switchable RS-232 with Adapterbox Connection Diagram No. Control Panel No. Suitable Connection Equipment No.	Overload Protection	yes			
Protection Class Mechanical Data Setting Method Housing Material Degree of Protection Connection Optic Cover Glass Material Control Panel Ecolab PNP NO/NC switchable RS-232 with Adapterbox Connection Diagram No. Control Panel No. Suitable Connection Equipment No.	Lockable	yes			
Mechanical Data Setting Method Housing Material Degree of Protection Optic Cover Glass Material Control Panel Ecolab PNP NO/NC switchable RS-232 with Adapterbox Connection Diagram No. Control Panel No. Suitable Connection Equipment No.	Teach Mode	NT, MT			
Setting Method Teach-In Housing Material Stainless steel 316L Degree of Protection IP68/IP69K Connection Optic Cover Glass Material Control Panel Ecolab PC (FDA) Feolab PNP NO/NC switchable RS-232 with Adapterbox Connection Diagram No. I52 Control Panel No. Suitable Connection Equipment No.	Protection Class	III			
Housing Material Degree of Protection IP68/IP69K Connection Optic Cover Glass Material Control Panel Ecolab PC (FDA) yes PNP NO/NC switchable RS-232 with Adapterbox Connection Diagram No. Control Panel No. Suitable Connection Equipment No.	Mechanical Data				
Degree of Protection Degree of Protection Connection M12 × 1; 4-pin Optic Cover Glass Material Control Panel Ecolab PC (FDA) yes PNP NO/NC switchable RS-232 with Adapterbox Connection Diagram No. 152 Control Panel No. Suitable Connection Equipment No.	Setting Method	Teach-In			
Connection Optic Cover Glass Material Control Panel Ecolab PC (FDA) yes PNP NO/NC switchable RS-232 with Adapterbox Connection Diagram No. 152 Control Panel No. Suitable Connection Equipment No.	Housing Material	Stainless steel 316L			
Optic Cover Material Control Panel Ecolab PC (FDA) Ecolab PNP NO/NC switchable RS-232 with Adapterbox Connection Diagram No. Control Panel No. Suitable Connection Equipment No. 2	Degree of Protection	IP68/IP69K			
Material Control Panel PC (FDA) Ecolab yes PNP NO/NC switchable RS-232 with Adapterbox Connection Diagram No. Control Panel No. Suitable Connection Equipment No. 2	Connection	M12 × 1; 4-pin			
Ecolab yes PNP NO/NC switchable RS-232 with Adapterbox Connection Diagram No. Control Panel No. Suitable Connection Equipment No. 2	Optic Cover	Glass			
PNP NO/NC switchable RS-232 with Adapterbox Connection Diagram No. Control Panel No. Suitable Connection Equipment No. 2	Material Control Panel	PC (FDA)			
RS-232 with Adapterbox Connection Diagram No. Control Panel No. Suitable Connection Equipment No. 2	Ecolab	yes			
Connection Diagram No. 152 Control Panel No. II1 Suitable Connection Equipment No. 2	PNP NO/NC switchable				
Control Panel No. Suitable Connection Equipment No. 2	RS-232 with Adapterbox				
Suitable Connection Equipment No.	Connection Diagram No.	152			
	Control Panel No.	II1			
Suitable Mounting Technology No. 140 490	Suitable Connection Equipment No.	2			
	Suitable Mounting Technology No.	140 490			

Complementary Products

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



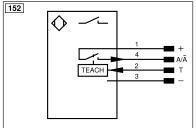


Ctrl. Panel





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



Legend					
+	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	AMAX	Digital output MAX
V	Contamination/Error Output (NO)	0	Analog Output	Аок	Digital output OK
∇	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
Τ	Teach Input	Аму	Valve Output	OLT	Brightness output
Z	Time Delay (activation)	а	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
②	IO-Link	Rx+/-	Ethernet Receive Path	GN	Green
PoE	ower 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
PT	Platinum measuring resistor	ENARS422	Encoder A/Ā (TTL)		•

Table 1

Detection Range	100 mm	500 mm	800
Light Spot Diameter	19 mm	40 mm	55 mm









