Retro-Reflex Sensor

for Clear Glass Recognition

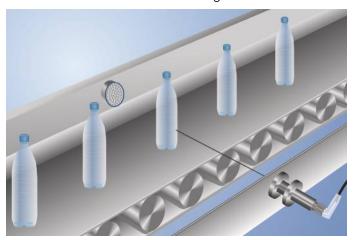
OKI403C0203

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

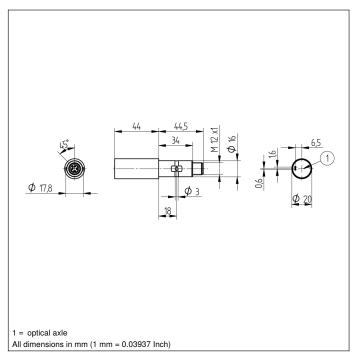
Optical Data				
Range	4000 mm			
Reference Reflector/Reflector Foil	RQ100BA			
Clear Glass Recognition	yes			
Switching Hysteresis	< 5 %			
Light Source	Red Light			
Polarization Filter	yes			
Service Life (T = +25 °C)	100000 h			
Max. Ambient Light	10000 Lux			
Opening Angle	3 °			
Single-Lens Optic	yes			
Electrical Data				
Supply Voltage	1030 V DC			
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	-1060 °C			
Switching Output Voltage Drop	< 2,5 V			
PNP Switching Output/Switching Current	200 mA			
Residual Current Switching Output	< 50 μA			
Short Circuit Protection	yes			
Reverse Polarity Protection	yes			
Overload Protection	yes			
Lockable	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	Glass			
PNP NO/NC switchable				
RS-232 with Adapterbox				
Connection Diagram No.	152			
Control Panel No.	II3			
Suitable Connection Equipment No.	2			
Suitable Mounting Technology No.	140 490			

InoxSens

Complementary Products

Complementary i roddoto						
Adapterbox A232						
PNP-NPN Converter BG2V1P-N-2M						
Reflector in Stainless Steel Protective Housing						
Reflector, Reflector Foil						
Software						

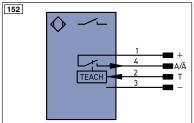




Optic



01 = Switching Status Indicator 02 = Contamination Warning



Legend			PT	Platinum measuring resistor	ENARS422	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
٧	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
•	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(-)		Violet
OSSD	Safety Output		La	Emitted Light disengageable	GY	Grey
Signal	Signal Output		Mag	Magnet activation	WH	White
BI_D+/-	- Ethernet Gigabit bidirect. data	a line (A-D)	RES	Input confirmation		Pink
ENors42	Encoder 0-pulse 0-0 (TTL)	, ,	EDM	Contactor Monitoring	GNYE	Green/Yellow

Feasible reflector distance

Reflector type, mounting distance

Treflector type, mounting distance								
RQ100BA	04 m	RE6210BM	00,7 m					
RE18040BA	02,5 m	RR25_M	01 m					
RQ84BA	03,5 m	RR25KP	00,55 m					
RR84BA	04 m	RR21_M	00,9 m					
RE9538BA	01,5 m	ZRAE02B01	01,6 m					
RE6151BM	03,4 m	ZRDS01R01	00,7 m					
RR50_A	02,6 m	ZRME01B01	00,4 m					
RE6040BA	03,2 m	ZRME03B01	01,6 m					
RE8222BA	01,9 m	ZRMR02K01	00,5 m					
RR34_M	01,6 m	ZRMS02_01	00,7 m					
RE3220BM	00,8 m	Z90R001	00,7 m					









