

Retro-Reflex Sensor for Clear Glass Recognition



OKII603C0103

Part Number

INOXSENS



- Hygienic Design makes it easy to clean
- Made with food safe materials that are FDA approved
- Touch Teach-In, dynamic Teach-In, external Teach-In, RS-232 Interface
- waterproof IP68 and IP69K

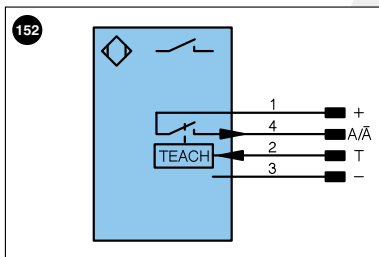
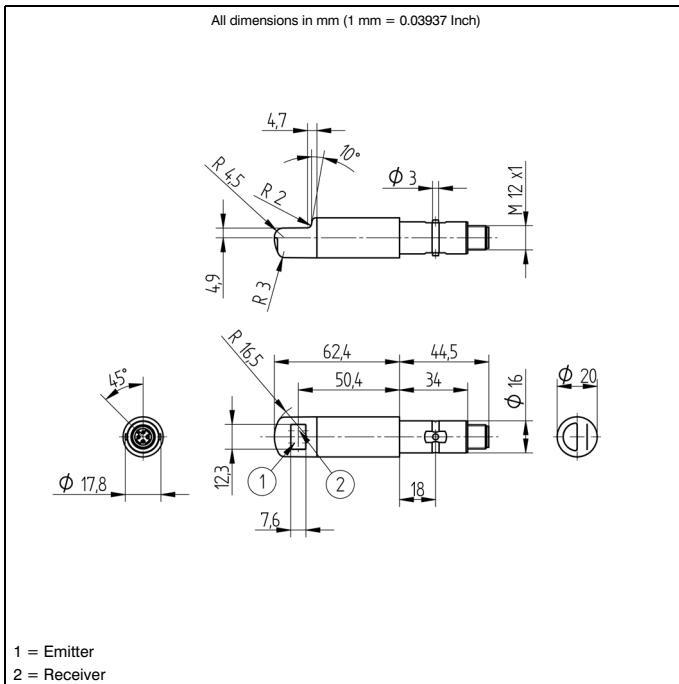
Together with other components, wenglor's InoXsens Sensors create an innovative system which can be seamlessly integrated into your machine. Their innovative design allows contamination and cleaning agents to flow off by themselves. Setup with the help of touch teach-in is possible directly through the hermetically sealed housing. The laser welded stainless steel housing made of V4A (1.4404/316L) is corrosion-free and resistant to cleaning agents. The captive optics are made of either glass or plastic. The InoXlock system is used for gap-free mounting.



Technical Data

Optical Data	
Range	6000 mm
Reference Reflector/Reflex Foil	RQ100BA
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 °
Electrical Data	
Supply Voltage	10...30 V DC
Current Consumption (U _b = 24V)	< 40 mA
Switching Frequency	1600 Hz
Response Time	313 μs
On-/Off-Delay (RS-232)	0...5 s
Temperature Drift	< 5 %
Temperature Range	-10...60 °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
Mechanical Data	
Adjustment	Teach-In
Housing	Stainless Steel 316L
Degree of Protection	IP68 / IP69K
Connection	M12 x 1
Protective Insulation, Rated Voltage	50 V
Optic Cover	PMMA (FDA)
Material Control Panel	PC (FDA)
PNP NO/NC switchable	●
RS-232 with Adapterbox	●
Connection Diagram No.	152
Control Panel No.	111
Suiting Connection Technology No.	2
Suiting Mounting Technology No.	140 490





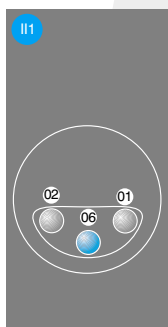
Legend			
+	Supply Voltage +	U	Test Input
-	Supply Voltage 0V	Ū	Test Input inverted
~	Supply Voltage (AC Voltage)	W	Trigger Input
A	Switching Output (1,2,3...)/NO	O	Analog Output
Ā	Switching Output (1,2,3...)/NC	O-	Ground for the Analog Output
V	Contamination/Error Output (NO)	BZ	Block Discharge
V̄	Contamination/Error Output (NC)	Awv	Valve Output
E	Input (analog or digital)	a	Valve Control Output +
T	Teach Input	b	Valve Control Output 0V
Z	Time Delay (activation)	SY	Synchronization
S	Shielding	E+	Receiver-Line
RxD	RS-232 Receive Path	S+	Emitter-Line
TxD	RS-232 Send Path	±	Grounding
RDY	Ready	SnR	Switching Distance Reduction
GND	Ground	USBD+	USB data +
CL	Clock	USBD-	USB data -
E/A	Output/Input programmable	Bus	Interfaces-Bus A(+)/B(-)
	IO-Link	La	Emitted Light disengageable

Wire Colors according to DIN IEC 757	
BK	Black
BN	Brown
RD	Red
OG	Orange
YE	Yellow
GN	Green
BU	Blue
VT	Violet
GY	Grey
WH	White
PK	Pink
GNYE	Green Yellow

Complimentary Products

- Adapterbox A232
- Reflector in Stainless Steel Protection Housing
- Reflector, Reflex Foil

Ctrl. Panel



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

Feasible reflector distance

Reflector type, mounting distance

RQ100BA	0,03...6 m	RR25KP	0,09...1 m
RE18040BA	0,04...4 m	RR21_M	0,07...1,6 m
RQ84BA	0,04...4,7 m	RE6151BH	0,04...2,4 m
RR84BA	0,04...5,9 m	RF505	0,14...1,7 m
RE9538BA	0,06...2,4 m	RF255	0,13...1,4 m
RE6151BM	0,11...4,6 m	RF508	0,14...1,7 m
RR50_A	0,03...3,5 m	RF258	0,14...1,5 m
RE6040BA	0,02...4,5 m	ZRAE02B01	0,04...2,5 m
RE8222BA	0,03...2,7 m	ZRDF_K01	0,14...4 m
RR34_M	0,13...1,9 m	ZRME01B01	0,06...0,8 m
RE3220BM	0,11...1,9 m	ZRMR02K01	0,06...0,9 m
RE6210BM	0,15...1 m	ZRMS02_01	0,06...1,2 m
RR25_M	0,08...1,5 m		

Specifications are subject to change without notice