

# Retro-Reflex Sensor for Clear Glass Recognition



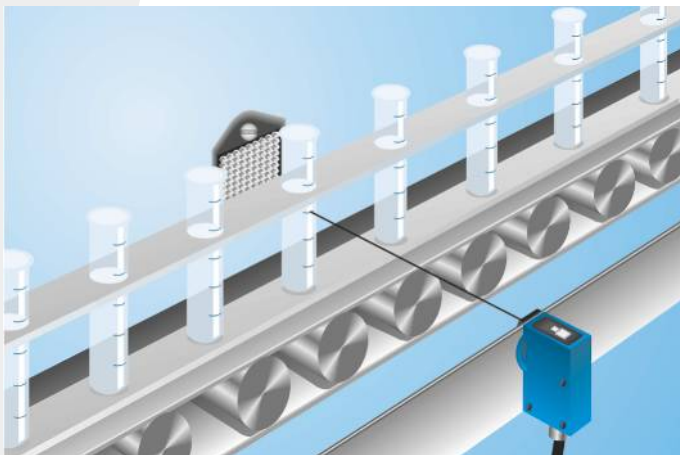
## XR96PCT2 LASER

Part Number



- Easy to install
- Recognition of Clear Glass with the use of reflectors with micro structure
- Teach-In, external Teach-In, RS-232 Interface

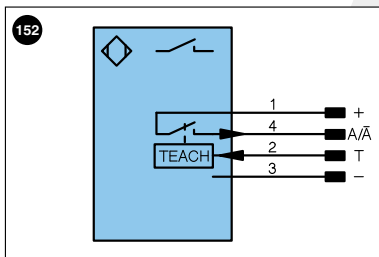
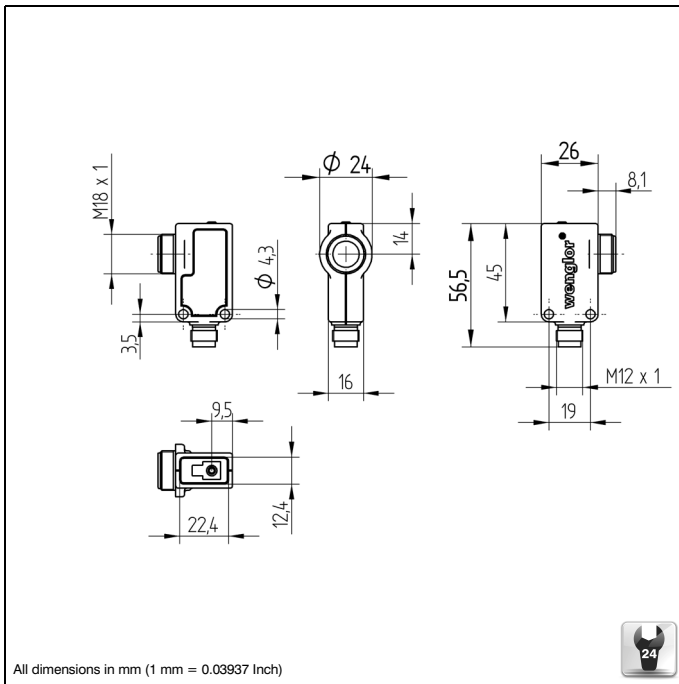
A reflector must be used in combination with these sensors. wenglor has the right retro-reflex light barrier for every application. Even crystal-clear objects and sheet products can be reliably recognized. The sensor is easy to install with its integrated M18 threaded fixation, and can be easily protected as well. Time delay can be activated by RS-232 interface.



### Technical Data

Optical Data	
Range	12000 mm
Reference Reflector/Reflex Foil	RQ100BA
Clear Glass Recognition	yes
Switching Hysteresis	< 5 %
Light Source	Laser (red)
Wave Length	655 nm
Polarization Filter	yes
Service Life (T = +25 °C)	100000 h
Laser Class (EN 60825-1)	2
max. Ambient Light	10000 Lux
Beam Divergence	5 mrad
Focus Distance	500 mm
Single-Lens Optic	yes
Electrical Data	
Supply Voltage	10...30 V DC
Current Consumption (U <sub>b</sub> = 24 V)	< 40 mA
Switching Frequency	2 kHz
Response Time	250 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
Protection Class	III
Mechanical Data	
Adjustment	Teach-In
Housing	Plastic
Full Encapsulation	yes
Degree of Protection	IP67
Connection	M12 × 1; 4-pin
PNP NO/NC switchable	●
RS-232 with Adapterbox	●
Connection Diagram No.	152
Control Panel No.	M 3
Suiting Connection Technology No.	2
Suiting Mounting Technology No.	150 370



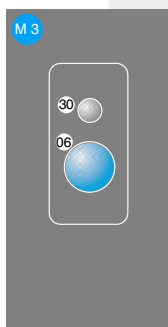


Legend					
+	Supply Voltage +	U	Test Input	PeE	Power over Ethernet
-	Supply Voltage 0 V	U̅	Test Input inverted		
~	Supply Voltage (AC Voltage)	W	Trigger Input		
A	Switching Output (NO)	O	Analog Output		
A̅	Switching Output (NC)	O-	Ground for the Analog Output		Wire Colors according to DIN IEC 757
V	Contamination/Error Output (NO)	BZ	Block Discharge	BK	Black
V̅	Contamination/Error Output (NC)	AwV	Valve Output	BN	Brown
E	Input (analog or digital)	a	Valve Control Output +	RD	Red
T	Teach Input	b	Valve Control Output 0 V	OG	Orange
Z	Time Delay (activation)	SY	Synchronization	YE	Yellow
S	Shielding	E+	Receiver-Line	GN	Green
RxD	Interface Receive Path	S+	Emitter-Line	BU	Blue
TxD	Interface Send Path	±	Grounding	VT	Violet
RDY	Ready	SnR	Switching Distance Reduction	GY	Grey
GND	Ground	Rx +/-	Ethernet Receive Path	WH	White
CL	Clock	Tx +/-	Ethernet Send Path	PK	Pink
E/A	Output/Input programmable	Bus	Interfaces-Bus A(+)/B(-)	GNYE	Green Yellow
	IO-Link	La	Emitted Light disengageable		

## Complementary Products

Adapterbox A232
Dust extraction tube STAUBTUBUS-01
Reflector, Reflex Foil

## Ctrl. Panel



06 = Teach Button  
30 = Switching Status/Contamination Warning

## Feasible reflector distance

Reflector type, mounting distance

RQ100BA	0...12 m	RR25_M	0...5 m
RE18040BA	0...8 m	RR25KP	0...3 m
RQ84BA	0...10 m	RR21_M	0...3 m
RR84BA	0...15 m	ZRAE02B01	0...6 m
RE9538BA	0...6 m	ZRME01B01	0...2 m
RE6151BM	0...10 m	ZRME03B01	0...6 m
RR50_A	0...9 m	ZRMR02K01	0...3 m
RE6040BA	0...10 m	ZRMS02_01	0...2,5 m
RE8222BA	0...6 m	RF505	0...4 m
RR34_M	0...6 m	RF508	0...3 m
RE3220BM	0...5 m	RF258	0...3 m
RE6210BM	0...4,5 m	ZRDF_K01	0...8 m

Specifications are subject to change without notice