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	1		
Supply Voltage	1030 V DC		
Current Consumption (Ub = 24 V)	< 40 mA		
Switching Frequency	1600 Hz		
Response Time	313 <i>µ</i> s		
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	O		
Connection Diagram No.	152		
Control Panel No.	113		
Suitable Connection Equipment No.	2		
Suitable Mounting Technology No.	140 490		

Complementary Products

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

Photoelectronic Sensors

InoxSens







Leaen	Legend PT Platinum measuring resistor ENArsez Encoder A/Ā (TTL)						
-	Supply Voltage +		not connected	ENAR5422			
+		nc		ENBR5422	Encoder A		
-	Supply Voltage 0 V	U	Test Input				
~	Supply Voltage (AC Voltage)	Ū	Test Input inverted	ENв	Encoder B		
A	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		Synchronization	Wire Co	Colors 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		
0	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 RS42	Encoder 0-pulse 0-0 (TTL)	EDM	Contactor Monitoring	GNYE	Green/Yellow		

Feasible reflector distance

Reflector 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			

