Retro-Reflex Sensor

for Clear Glass Recognition

OPT1009

Part Number

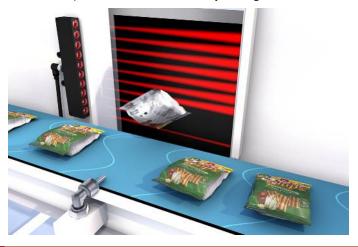


- External teach-in
- Recognition of clear glass
- Red light
- Single-lens optic
- Stainless steel plug (V2A)

Technical Data

Optical Data					
Range	4000 mm				
Reference Reflector/Reflector Foil	3 × RQ100BA				
Clear Glass Recognition	yes				
Switching Hysteresis	< 15 %				
Light Source	Red Light				
Polarization Filter	yes				
ervice Life (T = +25 °C) 100000 h					
Max. Ambient Light	10000 Lux				
Single-Lens Optic	yes				
Electrical Data					
Supply Voltage	1030 V DC				
Current Consumption (Ub = 24 V)	< 70 mA				
Switching Frequency	400 Hz				
Response Time	1,25 ms				
Temperature Drift	< 10 %				
Temperature Range	-2560 °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				
Protection Class	III				
Mechanical Data					
Setting Method	Input				
Housing Material	Plastic				
Full Encapsulation	yes				
Degree of Protection	IP67				
Connection	M12 × 1; 4/5-pin				
PNP NO	•				
Connection Diagram No.	150				
Control Panel No.	A37				
Suitable Connection Equipment No.	2				

A reflector must be used in combination with these sensors. A single housing contains ten sensors which are linked by an OR-logic. The output switches as soon as one of the beams is interrupted. As a result, large areas are easy to monitor. Even crystal-clear objects and sheet products can be reliably recognized.

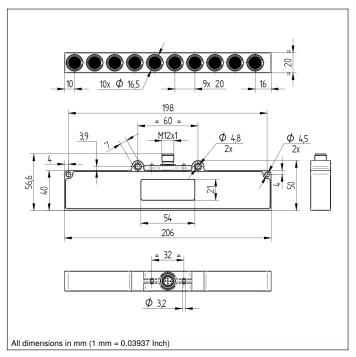


Complementary Products

PNP-NPN Converter BG2V1P-N-2M

Reflector, Reflector Foil

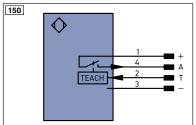




Ctrl. Panel



01 = Switching Status Indicator 68 = Supply Voltage Indicator



Leger	nd		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	ENв	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
Е	Input (analog or digital)		BZ	Block Discharge	SY OUT	Synchronization OUT
T	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
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		Pink
ENors42	2 Encoder 0-pulse 0-0 (TTL)	. ,	EDM	Contactor Monitoring	GNYE	Green/Yellow

Feasible reflector distance

Reflector type, mounting distance

RQ100BA	04 m	ZRME03B01	01 m
RE6151BM	03 m	RF505	00,8 m
RE6040BA	03,7 m	ZRAF08K01	00,8 m
Z90R006	01,4 m	ZRDF10K01	01,5 m
ZRAE02B01	00,5 m		









