Retro-Reflex Sensor

for Clear Glass Recognition

OPT282

Part Number

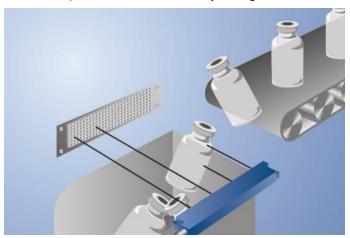


- Dynamic readjustment of the switching threshold
- Recognition of clear glass
- Teach-in, external teach-in

Technical Data

Technical Data					
Optical Data					
Range	4000 mm				
Reference Reflector/Reflector Foil	2 × 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 5 °					
Single-Lens Optic	yes				
Electrical Data					
Supply Voltage	1030 V DC				
Current Consumption (Ub = 24 V)	< 60 mA				
Switching Frequency	2 kHz				
Response Time	250 μs				
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					
hort Circuit Protection yes					
Reverse Polarity Protection	yes				
Overload Protection	yes				
ockable yes					
Protection Class	III				
Mechanical Data					
Setting Method	Teach-In				
Housing Material	Plastic				
Full Encapsulation	yes				
Degree of Protection	IP67				
Connection	M12 × 1; 4-pin				
PNP NO/NC switchable					
Connection Diagram No.	152				
Control Panel No.	M7				
Suitable Connection Equipment No.	2				

A reflector must be used in combination with these sensors. A single housing contains four 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.

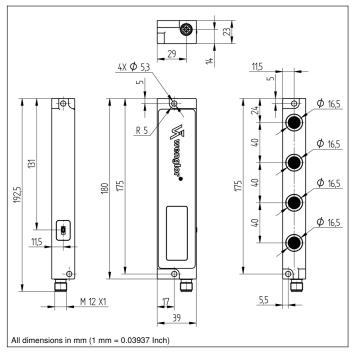


Complementary Products

PNP-NPN Converter BG2V1P-N-2M

Reflector, Reflector Foil

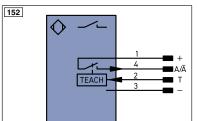




Ctrl. Panel



01 = Switching Status Indicator 06 = Teach Button



Legend			PT	Platinum measuring resistor	ENARS422	Encoder A/Ā (TTL)
+	Supply Voltage +		nc	not connected	ENBR5422	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
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	a line (A-D)	RES	Input confirmation	PK	Pink
ENors42	Encoder 0-pulse 0-0 (TTL)	, ,	EDM	Contactor Monitoring	GNYE	Green/Yellow

Feasible reflector distance

Reflector type, mounting distance

RQ100BA	04 m	ZRAE02B01	01 m
RE18040BA	01,7 m	ZRME03B01	01,7 m
RQ84BA	03 m	RF505	00,8 m
RE9538BA	00,9 m	ZRAF08K01	00,8 m
RE6151BM	02 m	ZRDF10K01	02,5 m
RE6040BA	02,3 m		









