

Retro-Reflex Sensor

for Clear Glass Recognition



OKM453C0302

Part Number

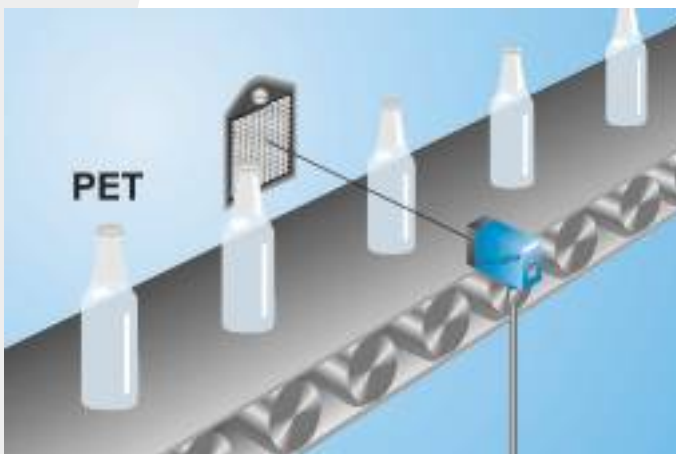


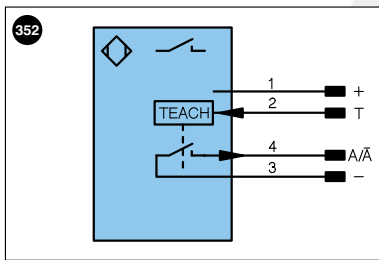
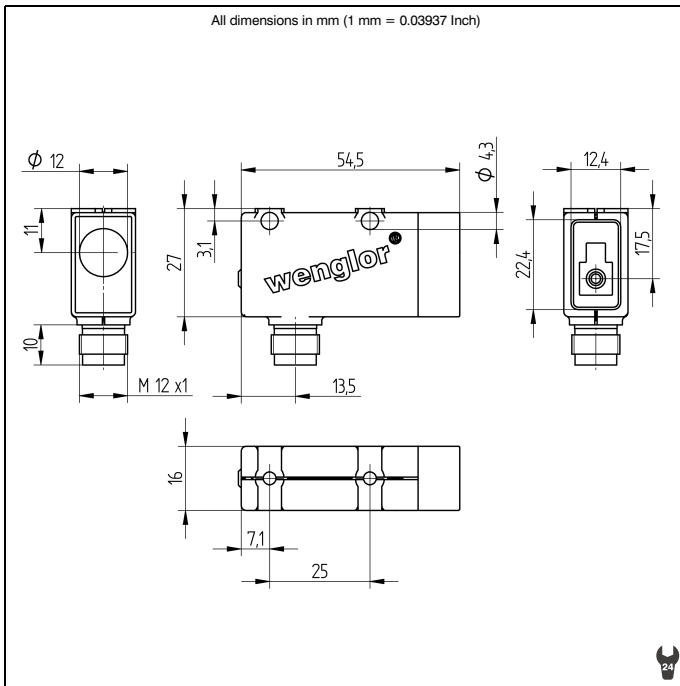
- Compact Housing
- no Blind Spot
- Recognition of Clear Glass
- Teach-In, external Teach-In, RS-232 Interface

Technical Data

Optical Data	
Range	4500 mm
Reference Reflector/Reflex 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 °
Electrical Data	
Supply Voltage	10...30 V DC
Current Consumption (U _b = 24V)	< 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
NPN Switching Output/Switching Current	100 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	Plastic
Full Encapsulation	yes
Degree of Protection	IP 67
Connection	M12 x 1
Protective Insulation, Rated Voltage	50 V
NPN NO/NC switchable	●
RS-232 with Adapterbox	●
Connection Diagram No.	352
Control Panel No.	M 3
Suitable Plug No.	2

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.



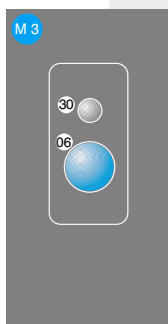


Legend		Wire colors according to DIN IEC 757
+	Power supply "+"	BK black
-	Power supply "0V"	BN brown
~	Power supply (AC Voltage)	RD red
A	Switching output (1,2,3...) / NO	OG orange
\bar{A}	Switching output (1,2,3...) / NC	YE yellow
V	Contamination / Error output (NO)	GN green
\bar{V}	Contamination / Error output (NC)	BU blue
E	Input (analog or digital)	VT violet
T	Teach input	GY grey
Z	Time delay (activation)	WH white
S	Shielding	PK pink
RxD	RS-232 receive path	GNYE green yellow
TxD	RS-232 send path	
RDY	Ready	
GND	Ground	
CL	Clock	
E/A	Output/Input programmable	
U	Test input	
\bar{U}	Test input inverted	
W	Trigger input	
O	Analog output (1,2,3,...)	
O-	Ground for the analog output	
BZ	Block discharge	
AWV	Valve output	
a	Valve control output "+"	
b	Valve control output "0V"	
SY	Synchronization	
E+	Receiver-Line	
S+	Emitter-Line	
\pm	Grounding	
SnR	Switching Distance Reduction	
USBD+	USB data +	
USBD-	USB data -	
Bus	Interfaces-Bus A(+)/B(-)	
La	Emitted light disengageable	

Accessories

Adapterbox A232
Mounting Bracket WM2
Reflector, Reflector Sheet

Ctrl.Panel



06 = Teach Button
30 = Switching Status/Contamination Warning

Feasible reflector distance

Reflektor type, mounting distance

RQ100BA	0...4,5 m	RE6210BM	0...1 m
RE18040BA	0...3 m	RR25_M	0...1,2 m
RQ84BA	0...3,5 m	RR25KP	0...0,8 m
RR84BA	0...4 m	RR21_M	0...1 m
RE9538BA	0...1,5 m	RE6151BH	0...1,5 m
RE6151BM	0...3,6 m	RF505	0...1,2 m
RR50_A	0...2,3 m	RF255	0...1 m
RE6040BA	0...3,5 m	RF508	0...1,1 m
RE8222BA	0...2 m	RF258	0...1 m
RR34_M	0...1,8 m	ZRAE02B01	0...2 m
RE3220BM	0...1,2 m	ZRME01B01	0...0,6 m