Retro-Reflex Sensor

for Clear Glass Recognition

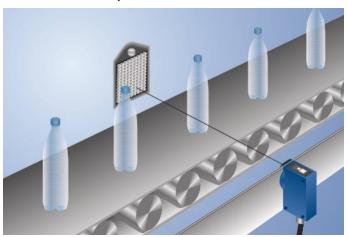
KR87NCT2

Part Number



- Recognition of clear glass
- Simple installation
- Teach-in, external teach-in

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	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	5 °		
Single-Lens Optic	yes		
Electrical Data	yee		
Supply Voltage	1030 V DC		
Current Consumption (Ub = 24 V)	< 40 mA		
Switching Frequency	2 kHz		
Response Time	250 µs		
On-/Off-Delay (RS-232)	05 s		
Temperature Drift	< 5 %		
Temperature Range	-1060 °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		
Protection Class	, III		
Mechanical Data			
Setting Method	Teach-In		
Housing Material	Plastic		
Full Encapsulation	yes		
Degree of Protection	IP67		
Connection	M12 × 1; 4-pin		
NPN NO/NC switchable			
RS-232 with Adapterbox	Ŏ		
Connection Diagram No.	352		
Control Panel No.	M3		
Suitable Connection Equipment No.	2		
Suitable Mounting Technology No.	150 370		

Complementary Products

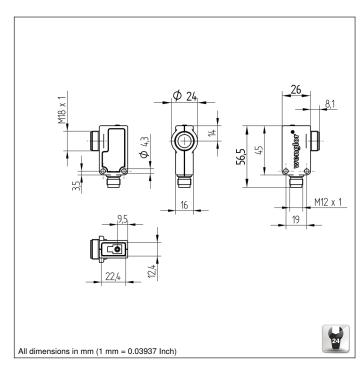
Adapterbox A232

Dust Extraction Tube STAUBTUBUS-01

Reflector, Reflector Foil

Software



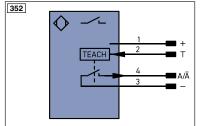


Ctrl. Panel



06 = Teach Button

30 = Switching Status/Contamination Warning



_egen	ıd		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	olors 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		Orange
E/A	Output/Input programmable		SnR	Switching Distance Reduction	YE	Yellow
•	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
ENOR5422	Encoder 0-pulse 0-0 (TTL)		EDM	Contactor Monitoring	GNYE	Green/Yellow

Feasible reflector distance

Reflector type, mounting distance

The second type, meaning distance								
RQ100BA	04 m	RR25_M	01,4 m					
RE18040BA	03 m	RR25KP	01 m					
RQ84BA	04 m	RR21_M	01 m					
RR84BA	04 m	ZRAE02B01	02 m					
RE9538BA	01,5 m	ZRME01B01	00,6 m					
RE6151BM	03,6 m	ZRME03B01	02,8 m					
RR50_A	03 m	ZRMR02K01	00,8 m					
RE6040BA	03,5 m	ZRMS02_01	00,9 m					
RE8222BA	02 m	RF505	01,2 m					
RR34_M	01,8 m	RF508	01,1 m					
RE3220BM	01,8 m	RF258	01 m					
RE6210BM	01,2 m	ZRDFK01	04 m					









