

High-Performance Distance Sensor

OY2P303A0135

LASER

WinTec

Part Number

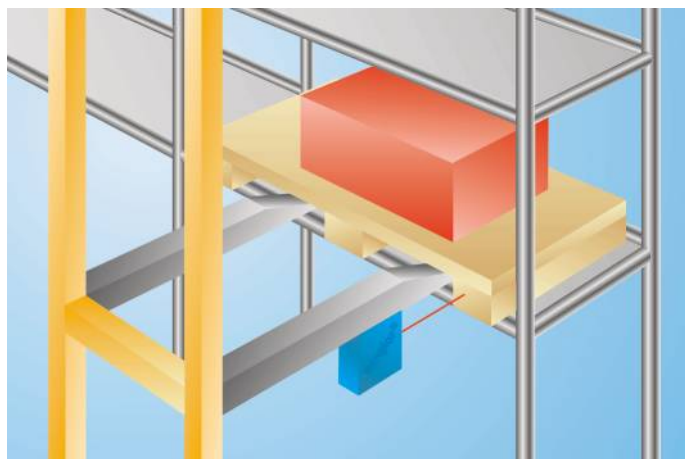


- interference-free towards gloss in the background with WinTec
- No mutual interference with WinTec
- reliable in case of glossy objects with WinTec
- Secure Detection of black objects also in extremely inclined positions with WinTec

These sensors have scratch-resistant optics and the emitted light can be switched off. They use the transit time measurement principle to measure the distance between the sensor and the object.

wenglor interference-free technology (WinTec) has revolutionized sensor technology:

It makes it possible to mount several sensors directly next to, or opposite each other without the sensors influencing each other. The sensors reach a very high switching frequency and use Laser Class 1, which is safe for the human eye.



Technical Data

Optical Data

Working Range	0...3000 mm
Adjustable Range	200...3000 mm
Switching Hysteresis	< 15 mm
Light Source	Laser (red)
Wave Length	660 nm
Service Life (T = +25 °C)	100000 h
Laser Class (EN 60825-1)	1
Beam Divergence	< 2 mrad
Max. Ambient Light	10000 Lux
Light Spot Diameter	see Table 1

Electrical Data

Supply Voltage	10...30 V DC
Current Consumption (Ub = 24 V)	< 50 mA
Switching Frequency	1000 Hz
Response Time	0,5 ms
Temperature Drift (-10 °C < Tu < 50 °C)	< 1 %
Temperature Drift (Tu < -10 °C, Tu > 50 °C)	< 2,5 %
Temperature Range	-40...60 °C
Switching Outputs	2
Switching Output Voltage Drop	< 2,5 V
PNP Switching Output/Switching Current	200 mA
Short Circuit Protection	yes
Reverse Polarity Protection	yes
Overload Protection	yes
Protection Class	III

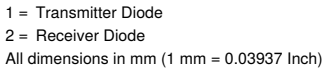
Mechanical Data

Adjustment	Teach-In
Housing Material	Plastic
Optic Cover	PMMA
Degree of Protection	IP68
Connection	M12 × 1; 4/5-pin

PNP NO/NC antivalent

Connection Diagram No.	780
Control Panel No.	P10
Suiting Connection Technology No.	2 35
Suiting Mounting Technology No.	380





Wire Colors according to
DIN IEC 757

BK	Black
BN	Brown
RD	Red
OG	Orange
YE	Yellow
GN	Green
BU	Blue
VT	Violet
GY	Grey
WH	White
PK	Pink
GNYE	Green Yellow

Working Distance	0 m	3 m
Light Spot Diameter	5 mm	9 mm

Protection Housing Set ZSP-NN-02

Protection Housing ZSV-0x-01

- 01 = Switching Status Indicator
02 = Contamination Warning
06 = Teach Button
68 = Supply Voltage Indicator

Typical characteristic curve based on Kodak white (90 % remission)

