Luminescence Sensor

A1P05QAT80

Part Number

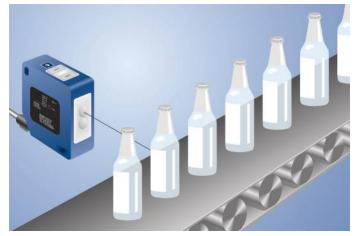


- Digital read-out of intensity values via the RS-232 interface
- Recognition of luminescenting marks
- Teach-in, dynamic teach-in, key potentiometer

The luminescence sensor detects with a receiver filter all luminescent markings which emit light within a wavelength range from 420-750 nm. With another receiver filter suppresses especially interfering whiteners. The sensors have a very small spot, and use a UV LED with a very long service life.

Technical Data

Optical Data	
Working Range	3050 mm
Working Distance	40 mm
Receiving Range	420750 nm
Switching Hysteresis	< 1 %
Light Source	UV Light
Wavelength	375 nm
Service Life (T = +25 °C)	100000 h
Risk Group (EN 62471)	2
Max. Ambient Light	10000 Lux
Light Spot Diameter	5 mm
Electrical Data	
Supply Voltage	1030 V DC
Current Consumption (Ub = 24 V)	< 50 mA
Switching Frequency	2500 Hz
Response Time	200 µs
On-/Off-Delay	0100 ms
Temperature Drift	< 1 %
Temperature Range	-2560 °C
Number of Switching Outputs	2
Switching Output Voltage Drop	1,5 V
Switching Output/Switching Current	200 mA
Short Circuit Protection	yes
Reverse Polarity Protection	yes
Lockable	yes
Teach Mode	ZT, DT, TP
Interface	RS-232
Baud Rate	38400 Bd
Number of Digital Inputs	2
Protection Class	Ш
Mechanical Data	
Setting Method	Teach-In
Housing Material	Plastic
Degree of Protection	IP67
Connection	M12 × 1; 8-pin
Configurable as PNP/NPN/Push-Pull	
Switchable to NC/NO	
RS-232 Interface	
Connection Diagram No.	736
Control Panel No.	P6
Suitable Connection Equipment No.	80
Suitable Mounting Technology No.	380

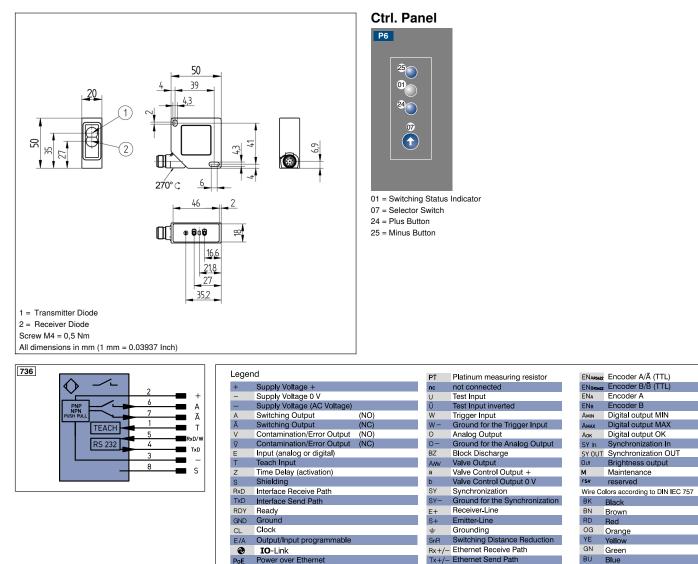


Complementary Products

Fieldbus Gateway ZAGxxxN01, EPGG001 Interface Cable S232W3 Software

Photoelectronic Sensors





Ideal Working Distance

Interfaces-Bus A(+)/B(-) Emitted Light disengageable

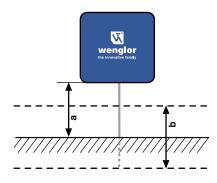
Magnet activation

Input confirmation Contactor Monitoring

La

Mag RES

EDM



VT

GY

WH White

Violet

Grev

PK Pink GNYE Green/Yellow

a = Working Distance b = Working Range



IN

Safety Input

BLD+/- Ethernet Gigabit bidirect. data line (A-D) ENorsez Encoder 0-pulse 0-0 (TTL)

OSSD Safety Output

Signal Signal Output