## Luminescence Sensor

## A2P05QAT80



- 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 570-750 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 | 30... 50 mm |
| Working Distance | 40 mm |
| Receiving Range | $570 \ldots 750 \mathrm{~nm}$ |
| Switching Hysteresis | < 1 \% |
| Light Source | UV Light |
| Wavelength | 375 nm |
| Service Life ( $\mathrm{T}=+25^{\circ} \mathrm{C}$ ) | 100000 h |
| Risk Group (EN 62471) | 2 |
| Max. Ambient Light | 10000 Lux |
| Light Spot Diameter | 5 mm |
| Electrical Data |  |
| Supply Voltage | 10... 30 V DC |
| Current Consumption ( $\mathrm{Ub}=24 \mathrm{~V}$ ) | $<50 \mathrm{~mA}$ |
| Switching Frequency | 2500 Hz |
| Response Time | $200 \mu \mathrm{~s}$ |
| On-/Off-Delay | 0... 100 ms |
| Temperature Drift | < 1 \% |
| Temperature Range | $-25 . . .60{ }^{\circ} \mathrm{C}$ |
| 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 | III |
| Mechanical Data |  |
| Setting Method | Teach-In |
| Housing Material | Plastic |
| Degree of Protection | IP67 |
| Connection | M12 $\times 1 ; 8$-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


Ctrl. Panel


01 = Switching Status Indicator
07 = Selector Switch
24 = Plus Button
$25=$ Minus Button

Ideal Working Distance



RoHS



