References, characteristics

Photo-electric sensors

OsiSense XU Application, packaging series Luminescence sensor (1) DC supply. Solid-state output

Design 18



| System | | Diffuse |
|-------------------------------|------------------------------|--|
| Type of transmission | | Ultraviolet (370 nm) |
| Nominal sensing distance (Sn) | | 20 mm for colour mark reading, 080 mm in diffuse mode |
| Sensitivity adjustment | | By potentiometer |
| References | | |
| 3-wire, PNP | NO function (2) | XU5M18U1D |
| Weight (kg) | | 0.075 |
| Characteristics | | |
| Product certifications | | CE, CSA, UL |
| Ambient air temperature | For operation | - 25+ 55 °C |
| | For storage | - 40+ 70 °C |
| Vibration resistance | Conforming to IEC 60068-2-6 | 7 gn, amplitude ± 0.6 mm (f = 1055 Hz) |
| Shock resistance | Conforming to IEC 60068-2-27 | 30 gn, duration 11 ms |
| Degree of protection | Conforming to IEC 60529 | IP 67 |
| Connection | | M12 connector (suitable female connectors, including pre-wired versions, see page 5/28) |
| Materials | Case | Nickel plated brass |
| | Lenses | PMMA |
| Spot diameter | | At 20 mm: Ø 3 x 1 mm |
| Auxiliary functions | | External synchronisation, locking |
| Indicator lights | Output state | Green LED |
| | Teach mode | - |
| Rated supply voltage | | |
| Voltage limits | | == 1030 V (including ripple) |
| Switching capacity (sealed) | | ≤ 100 mA with protection against reverse polarity, overload and short-circuit |
| Voltage drop, closed state | | ≤ 1.5 V (PNP) |
| Current consumption, no-load | | ≤20 mA |
| Maximum switching frequency | | 1 kHz |
| Delays | First-up | ≤ 100 ms |
| | Response | ≤500 μs |
| | Recovery | ≤500 μs |
| Time delay | | "OFF delay": 20 ms, activated/deactivated by cabling method |

(1) Applications: detection of invisible reference marks, markings, glues or varnishes containing bluing agents.
(2) Output activated when a blued mark on a non blued background is present.

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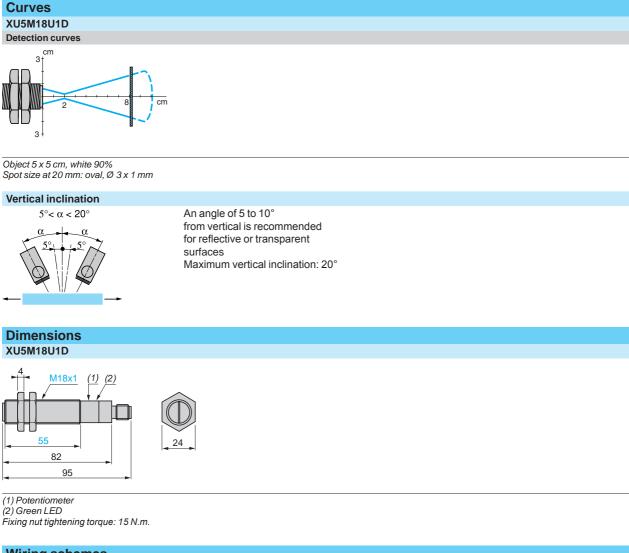
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5

Curves, dimensions, schemes

Photo-electric sensors

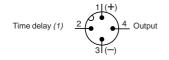
OsiSense XU Application, packaging series Luminescence sensor (1) DC supply. Solid-state output



Wiring schemes XU5M18U1D

Connector scheme

(Sensor connector pin view)



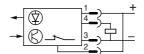
(1) "OFF delay" of output signal:

- no time delay: connect contact 2 to (+)

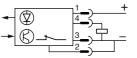
- 20 ms time delay: connect contact 2 to (-)

Wiring schemes (3-wire ----)

PNP output Without output signal time delay



With output signal time delay (20 ms)



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