



PS

PS4/AP-0C

Photo.Min,PNP-NO,Cable 90°,Diffuse  
DC MINIATURIZED CUBIC PHOTOELECTRIC SENSORS

## OVERVIEW

- Wide range of models: diffuse, retro-reflective, through-beam
- Extremely reduced dimensions
- High sensing distance
- Sensitivity adjustment
- Standard cable exit or M12 plug exit
- LED status indicator
- IP65 protection degree
- Complete protection against electrical damage



## TECHNICAL FEATURES

### Detection properties

|                          |                |
|--------------------------|----------------|
| Nominal sensing distance | 200mm          |
| Thermal drift of Sr      | $\leq 10\%$ Sr |
| Repeat Accuracy          | $\leq 5\%$     |
| Sensitivity adjustment   | Trimmer        |

|                                |                                                           |
|--------------------------------|-----------------------------------------------------------|
| Application                    |                                                           |
| Function Principle             | Diffuse reflection (short distance, $\leq 200\text{mm}$ ) |
| Optic position                 | Axial                                                     |
| Outputs                        |                                                           |
| Output type                    | PNP NO                                                    |
| Output Function                | NO                                                        |
| Switching frequency            | 100Hz                                                     |
| Response time                  | 5ms                                                       |
| Electrical data                |                                                           |
| Operating Voltage              | 10...30VDC                                                |
| No-Load supply current         | $\leq 30\text{mA}$                                        |
| Load current                   | $\leq 100\text{mA}$                                       |
| Leakage current                | $\leq 10\mu\text{A}$ @ $V_{\text{max}}$                   |
| Output voltage drop            | $\leq 1,2\text{V}$ @ $I_{\text{load}}=100\text{mA}$       |
| Max ripple content             | $\leq 10\%$                                               |
| LED indicators                 | red (output state)                                        |
| Time delay before availability | $\leq 200\text{ms}$                                       |
| Short-circuit protection       | Yes                                                       |
| Reverse Polarity Protection    | Yes                                                       |

|                                |                                     |
|--------------------------------|-------------------------------------|
| Emission                       | LED Infrared (880nm)                |
| Interference to external light | 3000lux Incandescent Lamp, 10000lux |

Mechanical data

|                       |                                   |
|-----------------------|-----------------------------------|
| Dimensions            | 15x49x26mm                        |
| Material              |                                   |
| Housing material      | ABS                               |
| Weight                | 90g                               |
| Connections           | 2m PVC cable 90°                  |
| Active Head Material  | PMMA                              |
| Operating temperature | - 25°C...+ 70°C ( without freeze) |
| Diameter/Dimension    | Cubic                             |

Test/Approvals

|                       |                                                |
|-----------------------|------------------------------------------------|
| Approvals             | CE                                             |
| EMC compatibility     | EN 60947-5-2                                   |
| Shocks and vibrations | Vibration IEC 60068-2-6 / Shock IEC 60068-2-27 |
| Degree of protection  | IP65                                           |

Accessories

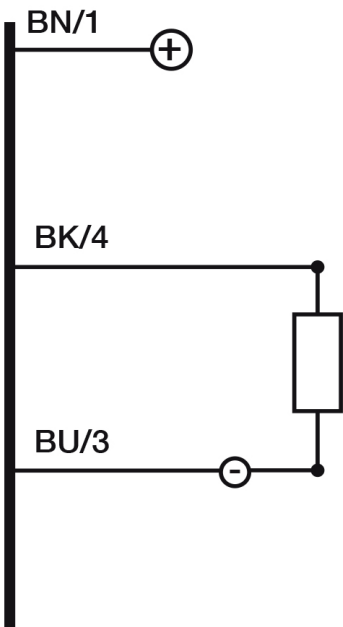
|                      |                                  |
|----------------------|----------------------------------|
| Supplied Accessories | ST07 mounting bracket and screws |
|----------------------|----------------------------------|

Generical Data

|                       |                                  |
|-----------------------|----------------------------------|
| Dimensions            | 15x49x26mm                       |
| Operating Temperature | - 25°C...+ 70°C (Without freeze) |
| Mechanical Protection | IP65                             |

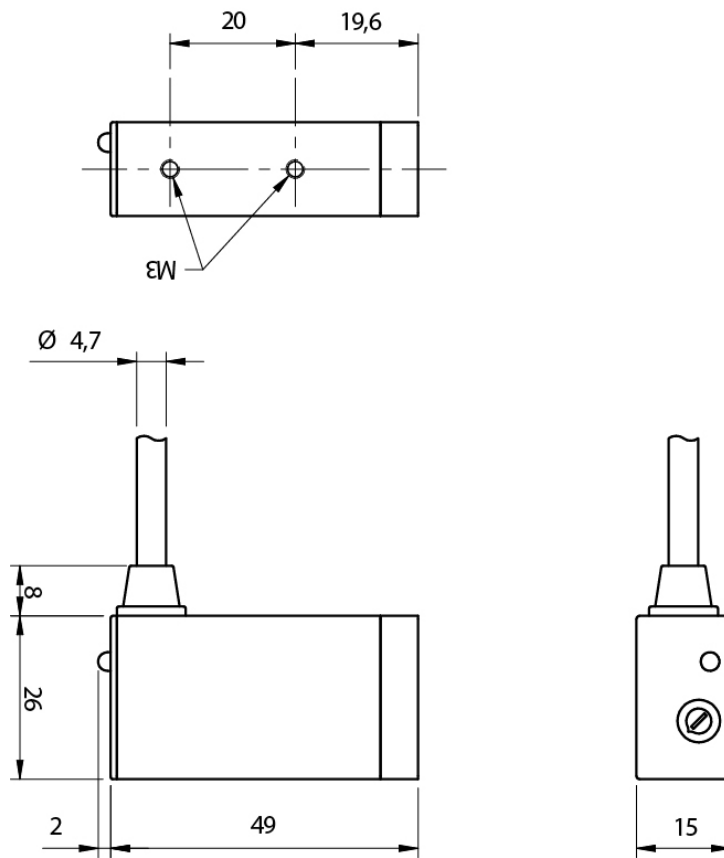
CONNECTIONS

Eletrical diagram

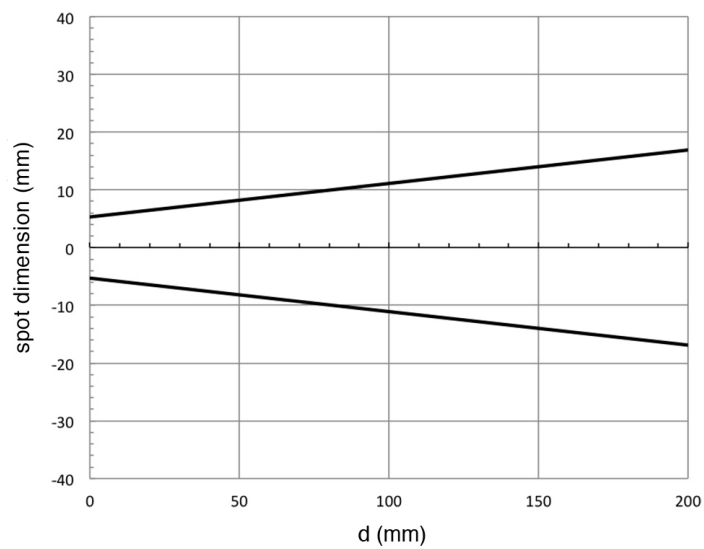


OTHERS

Dimensions



Response curves



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