



# RX

## RXS/0T-1A

**Photo.Maxi,NPN/PNP-NO/NC,M12  
plug,BGS**

**MAXI WITH STATIC OUTPUT DC OR WITH RELAY OUTPUT  
AC/DC**

## OVERVIEW

- Models: diffuse reflection, retro-reflective, polarized, through-beam and background suppression
- Series with high performances and wide possibilities of installation
- High sensing distance and very small dimensions
- Relay output or multifunctional DECOU<sup>®</sup>
- Timer function delay on, delay off, one shot; trimmer for sensitivity adjustment
- Switch reducing the emission for fine detection in through-beam types
- LED alignment indicator with 360° visibility, 2 LED indicators (stable signal, output)
- M12 standard plug cable exit; axial and right angle brackets



## TECHNICAL FEATURES

### Detection properties

|                          |         |
|--------------------------|---------|
| Nominal sensing distance | 0,3m    |
| Thermal drift of Sr      | 10% Sr  |
| Repeat Accuracy          | 5%      |
| Sensitivity adjustment   | Trimmer |

|                                       |       |
|---------------------------------------|-------|
| Minimum sensing distance (blind zone) | 0,05m |
|---------------------------------------|-------|

### Application

|                    |                                           |
|--------------------|-------------------------------------------|
| Function Principle | Blackground suppression                   |
| Notes              | white target Kodak 90% 200 x 200mm EG=1,5 |
| Optic position     | Axial                                     |

### Outputs

|                     |                                                   |
|---------------------|---------------------------------------------------|
| Output type         | Decout NPN/PNP Selectable Decout NO/NC Selectable |
| Output Function     | Decout NO/NC Selectable                           |
| Switching frequency | 500Hz                                             |
| Response time       | 1ms                                               |

### Electrical data

|                        |                                                       |
|------------------------|-------------------------------------------------------|
| Operating Voltage      | 10...30VDC                                            |
| No-Load supply current | ≤ 40mA                                                |
| Load current           | ≤100mA                                                |
| Leakage current        | ≤ 10μA                                                |
| Output voltage drop    | ≤1,2V@Iload=100mA                                     |
| Max ripple content     | ≤10%                                                  |
| LED indicators         | Red (output status) o (alineament), Green (stability) |
|                        |                                                       |

|                                |                               |
|--------------------------------|-------------------------------|
| Time delay before availability | ≤200ms                        |
| Short-circuit protection       | Yes                           |
| Reverse Polarity Protection    | Yes                           |
| Emission                       | LED Infrared (880nm)          |
| Interference to external light | ≥ 5000lux (incandescent lamp) |

Mechanical data

|                       |                                   |
|-----------------------|-----------------------------------|
| Dimensions            | 26x86,6x50                        |
| Housing material      | PC                                |
| Weight                | 75g                               |
| Connections           | M12 plug                          |
| Active Head Material  | PMMA                              |
| Operating temperature | - 25°C...+ 70°C ( without freeze) |
| Diameter/Dimension    | Cubic                             |

Test/Approvals

|                       |                                                |
|-----------------------|------------------------------------------------|
| Approvals             | CE cULus                                       |
| EMC compatibility     | EN 60947-5-2                                   |
| Shocks and vibrations | Vibration IEC 60068-2-6 / Shock IEC 60068-2-28 |
| Degree of protection  | IP65                                           |

## Accessories

|                      |                                  |
|----------------------|----------------------------------|
| Supplied Accessories | ST80 mounting bracket and screws |
|----------------------|----------------------------------|

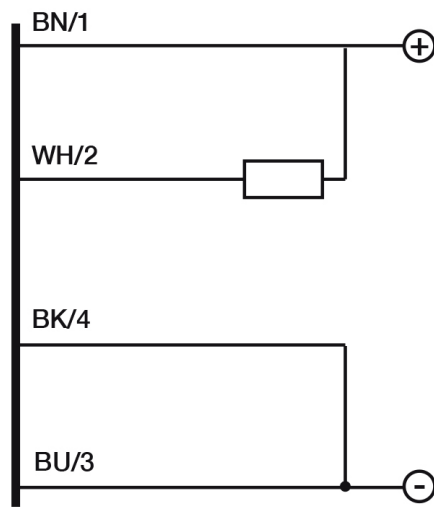
## Generical Data

|                       |                                  |
|-----------------------|----------------------------------|
| Dimensions            | 26x86,6x50                       |
| Operating Temperature | - 25°C...+ 70°C (Without freeze) |
| Mechanical Protection | IP65                             |

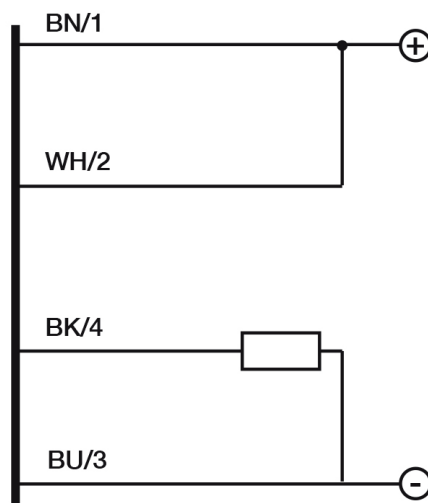
# CONNECTIONS

Eletrical diagram

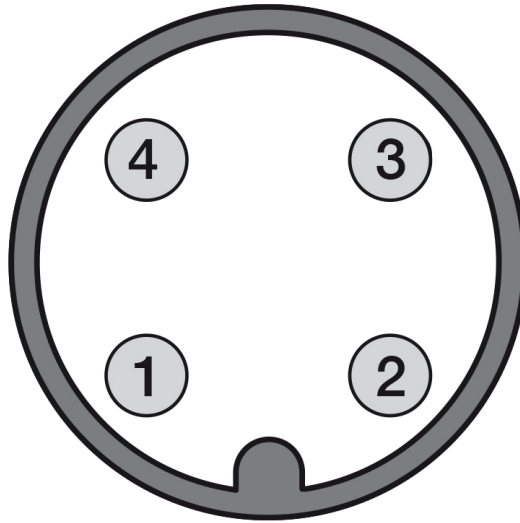
## NPN



## PNP



Connector

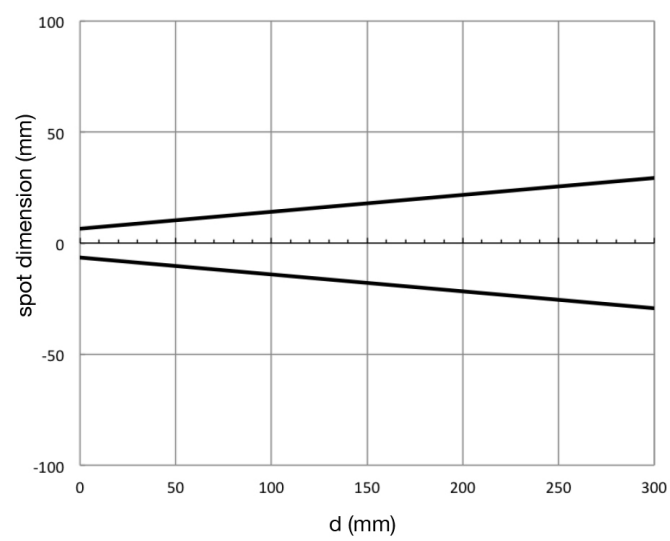


## OTHERS

Dimensions

Image:

Response curves



**Datasensing  
S.r.l.**

Strada S.Caterina, 235  
41122 Modena (MO)  
Tel. 059 420411  
Fax 059 253973  
E-mail  
[info@datasensing.com](mailto:info@datasensing.com)

**date of  
printing**  
10/08/2026  
03:19:30