



## BX04-BX10

## BX10R/AD-HB6X

Area Sen, H=90mm-10mm pitch,Receiver  
MEDIUM RESOLUTION AREA SENSORS

## OVERVIEW

- IP67 protection degree (IP69K special model)
- Complete protection against electrical damages
- Detection of objects with irregular shape
- ATEX models, cat. 2 and cat. 3, available on request
- LED indicators
- Crossed beams detection



## TECHNICAL FEATURES

### Detection properties

|                          |            |
|--------------------------|------------|
| Nominal sensing distance | 0,3 ... 4m |
|--------------------------|------------|

|                     |      |
|---------------------|------|
| Thermal drift of Sr | ≤10% |
|---------------------|------|

|             |      |
|-------------|------|
| Beams space | 10mm |
|-------------|------|

|                   |      |
|-------------------|------|
| controlled height | 90mm |
|-------------------|------|

|                           |       |
|---------------------------|-------|
| minimum detectable object | Ø 5mm |
|---------------------------|-------|

|                                          |                                        |
|------------------------------------------|----------------------------------------|
| number of rays                           | 10                                     |
| Application                              |                                        |
| Function Principle                       | Receiver                               |
| Outputs                                  |                                        |
| Output type                              | NPN + PNP                              |
| Output Function                          | NO                                     |
| Switching frequency                      | 180Hz                                  |
| Resposnse time for light/dark transition | 500μs                                  |
| Resposnse time for dark/light transition | 5ms                                    |
| Electrical data                          |                                        |
| Operating Voltage                        | 10...26VDC                             |
| No-Load supply current                   | 50mA                                   |
| Load current                             | ≤100mA                                 |
| Leakage current                          | 10μA                                   |
| Output voltage drop                      | ≤2V Iload = 100mA                      |
| Max ripple content                       | ≤ 10%                                  |
| LED indicators                           | Yellow (output state) Red (alineament) |
| Time delay before availability           | ≤ 85ms                                 |
|                                          |                                        |

|                                  |                                                 |
|----------------------------------|-------------------------------------------------|
| Short-circuit protection         | autoreset                                       |
| Reverse Polarity Protection      | Yes                                             |
| Interference to external light   | 1000lux (incandescent lamp), 1500lux (sunlight) |
| Impulsive Overvoltage Protection | Yes                                             |

Mechanical data

|                       |                                |
|-----------------------|--------------------------------|
| Dimensions            | 45mm x 145mm x 20mm            |
| Housing material      | PBT                            |
| Weight                | 115g                           |
| Connections           | M12 Plug                       |
| Active Head Material  | PC                             |
| Tightening torque     | 25Nm                           |
| Operating temperature | 0°C...+ 50° C (without freeze) |

Test/Approvals

|                      |              |
|----------------------|--------------|
| Approvals            | CE cULus     |
| EMC compatibility    | EN 60947-5-2 |
| Degree of protection | IP67         |

Accessories

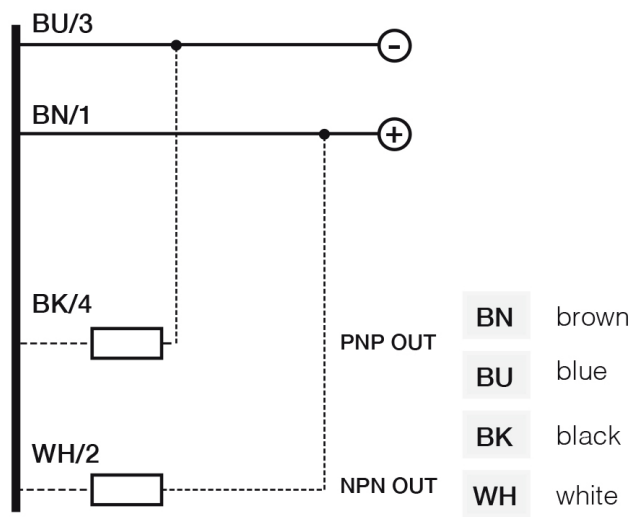
|                      |                                                        |
|----------------------|--------------------------------------------------------|
| Supplied Accessories | 2 nuts M18x1 - 1 adjustment key - 1 90°angled brackets |
|----------------------|--------------------------------------------------------|

Generical Data

|                       |                                |
|-----------------------|--------------------------------|
| Dimensions            | 45x145x20                      |
| Operating Temperature | 0°C...+ 50° C (without freeze) |
| Mechanical Protection | IP67                           |

# CONNECTIONS

Eletrical diagram

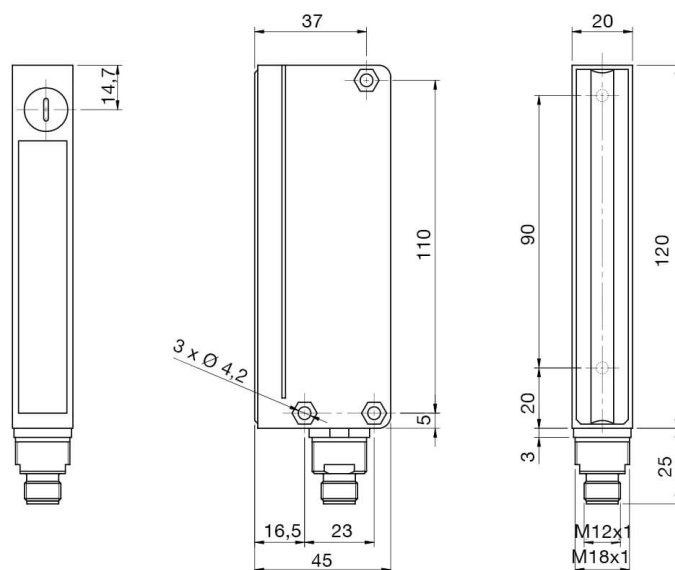


Connector



## OTHERS

### Dimensions



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