

# BX80

## BX80A/1P-0H9K

**Area Sen, H=70mm-6mm pitch,Receiver**
**HIGH RESOLUTION CUBIC HOUSING AREA SENSOR**

# OVERVIEW

- Controlled heightt 70 mm
- Operating distance up to 2 m
- Microprocessor based circuit
- Sensitivity adjustment
- Strong cubic housing
- Special version with metallic enclosure for high-duty use
- Protection degree IP67
- Complete protection against electrical damages

# TECHNICAL FEATURES

Detection properties

| | |
|---|---|
| Nominal sensing distance | 0 … 2m |
| Thermal drift of Sr | ≤10% |
| Beams space | 6mm |
| controlled height | 70mm |

| | |
|---|---|
| minimum detectable object | Ø 6mm |
| number of rays | 12 |

Application

| | |
|---|---|
| Function Principle | Receiver |

Outputs

| | |
|---|---|
| Output type | PNP |
| Output Function | NO/NC |
| Response time | 10ms |

Electrical data

| | |
|---|---|
| Operating Voltage | 12…24 VDC |
| No-Load supply current | 50mA |
| Load current | ≤100mA |
| Leakage current | 10µA |
| Output voltage drop | ≤1.2V Iload =100mA |
| Max ripple content | ≤ 10% |
| LED indicators | Green (powerON), red (alignment), yellow (output state) |
| Time delay before availability | 500ms |
| Short-circuit protection | Yes (auto reset) |
| Reverse Polarity Protection | Yes |

| | |
|---|---|
| Interference to external light | 1.500 lux max. (incandescent lamp), 4.500 lux max. (sunlight) |
| Impulsive Overvoltage Protection | Yes |

Mechanical data

| | |
|---|---|
| Dimensions | 44mm x 120mm x 20mm |
| Housing material | PBT |
| Weight | 260 … 300g |
| Connections | M12 plug |
| Active Head Material | PC |
| Tightening torque | 25Nm |
| Operating temperature | -25°C…+50°C (without freeze) |
| Storage temperature | -40°C…+80°C |

Test/Approvals

| | |
|---|---|
| Approvals | CE cULus |
| EMC compatibility | IEC 60947-5-2 |
| Shocks and vibrations | IEC EN 60947-5-2 |
| Degree of protection | IP69K |

Accessories

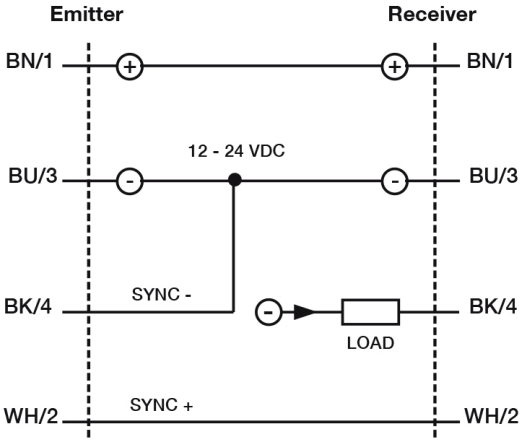
| | |
|---|---|
| Supplied Accessories | 2 nuts M18x1 - 1 adjustment key - 1 90°angled brackets |

Generical Data

| | |
|---|---|
| Dimensions | 45x145x20 |
| Operating Temperature | -25°C…+50°C (without freeze) |
| Mechanical Protection | IP69K |

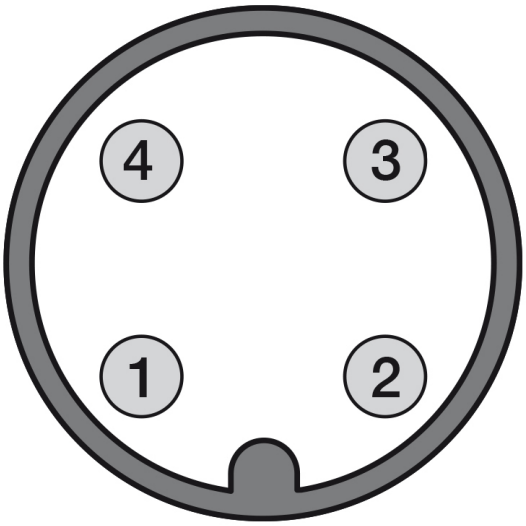
# CONNECTIONS

Eletrical diagram



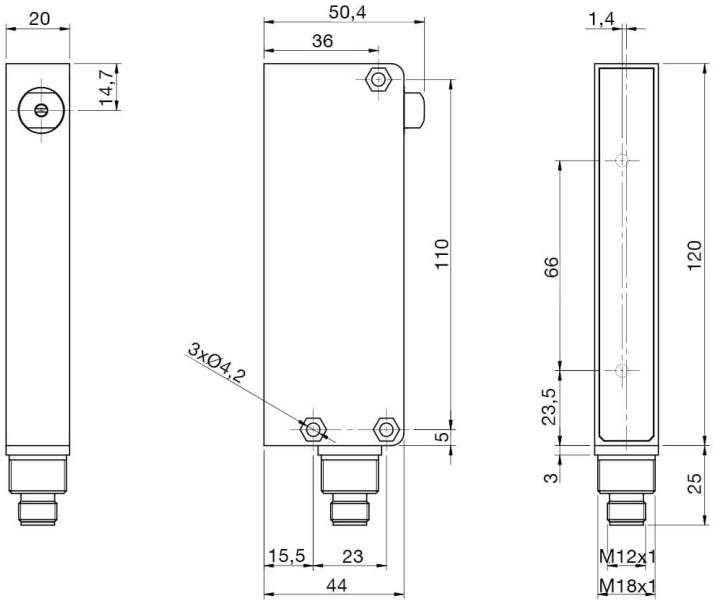

| | |
|---|---|
| BN | brown |
| BU | blue |
| BK | black |
| WH | white |

Connector




# OTHERS

Dimensions




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