# BX80B/4P-0H

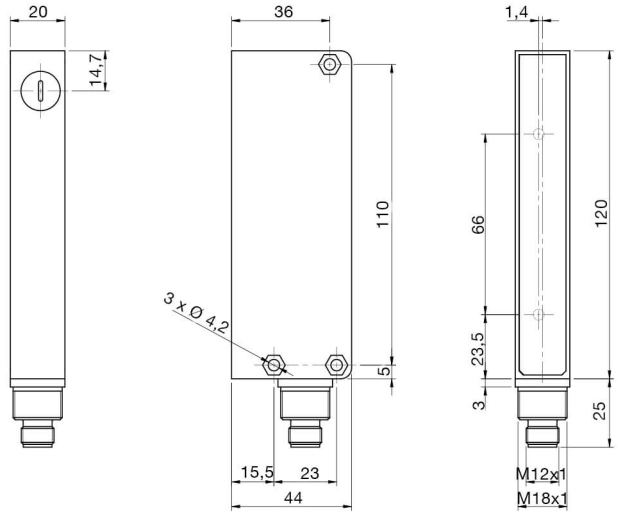
BX80



Indicative image

## HIGH RESOLUTION CUBIC HOUSING AREA SENSOR

- 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




### Detection properties

| | |
|---|---|
| Nominal sensing distance | 550mm ... 0,6m |
| Thermal drift of Sr | ≤10% |
| Beams space | 6mm |
| controlled height | 70mm |
| minimum detectable object | Ø 2mm |
| number of rays | 12 |

### Application

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

### Outputs

| | |
|---|---|
| Output type | PNP |
| Output Function | NO/NC |
| Switching frequency | 2ms |

### Electrical data

| | |
|---|---|
| Operating Voltage | 12 - 24Vdc |
| No-Load supply current | 50mA |
| Load current | ≤100mA |
| Leakage current | 10µA |
| Output voltage drop | ≤1.2V IL =100 mA |
| Max ripple content | ≤ 10% |
| LED indicators | green (supply), red (alignment), yellow (output state) |
| Time delay before availability | 500ms |
| Short-circuit protection | Yes (auto reset) |
| Reverse Polarity Protection | Yes |
| Emission | Infrared (880 nm) |
| 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 |
| Weight | 260 ... 300g |
| Housing Material | PBT |
| Connections | M12 plug |
| Active Head Material | PC |
| Tightening torque | 25Nm |
| Operating temperature | -25°C...+50°C (without freeze) |
| Storage temperature | -40°C...+80°C |

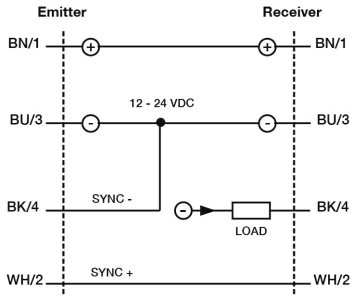
### Test/Approvals

| | |
|---|---|
| Approvals | CE |
| EMC compatibility | IEC 60947-5-2 |
| Shocks and vibrations | IEC EN 60947-5-2 |
| Degree of protection | IP67 |

### Generical Data

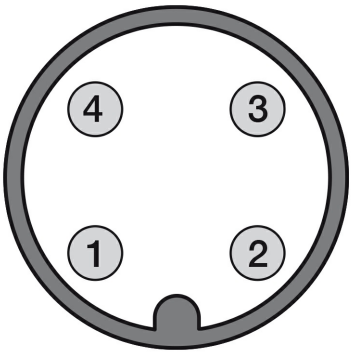
| | |
|---|---|
| Dimensions | 44mm x 120mm x 20mm |
| Operating Temperature | -25°C...+50°C (without freeze) |
| Mechanical Protection | IP67 |

## ELECTRICAL DIAGRAMS OF THE CONNECTIONS




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

## CONNECTOR




**Datasensing S.r.l.**
Strada S.Caterina, 235
41122 Modena (MO)
Tel. 059 420411
Fax 059 253973
E-mail info@datasensing.com

**date of printing**
29/04/2022 00:02:45