BX80B/1N-0H

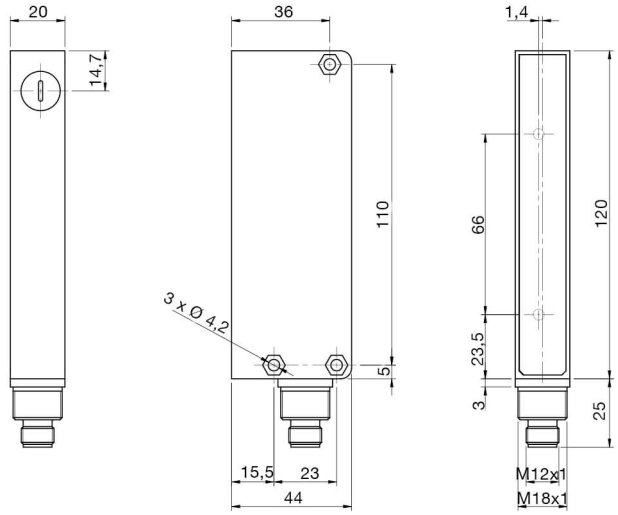
BX80



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	300mm ... 2m
Thermal drift of Sr	≤10%
Beams space	6mm
controlled height	70mm
minimum detectable object	Ø 5mm
number of rays	12

Application

Function Principle	Receiver

Outputs

Output type	NPN
Output Function	NO/NC
Switching frequency	10ms

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

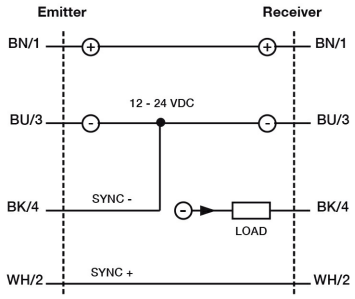
Test/Approvals

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

Generical Data

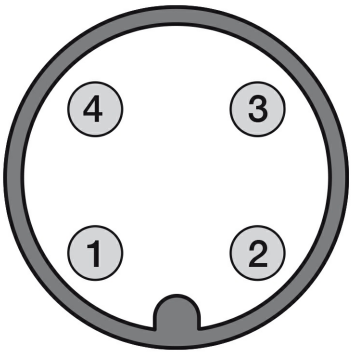
Dimensions	44mm x 120mm x 20mm
Operating Temperature	-25°C...+50°C (without freeze)
Mechanical Protection	IP67

ELECTRICAL DIAGRAMS OF THE CONNECTIONS



BN	brown
BU	blue
BK	black
WH	white

CONNECTOR



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