



BX80

BX80A/1P-0H

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

OVERVIEW

- Controlled height 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
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Thermal drift of Sr	≤10%
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Beams space	6mm
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controlled height	70mm
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minimum detectable object	Ø 6mm
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number of rays	12
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Application

Function Principle	Receiver
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Outputs

Output type	PNP
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Output Function	NO/NC
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Response time	10ms
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Electrical data

Operating Voltage	12...24 VDC
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No-Load supply current	50mA
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Load current	≤100mA
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Leakage current	10μA
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Output voltage drop	≤1.2V Iload =100mA
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Max ripple content	≤ 10%
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LED indicators	Green (powerON), red (alignment), yellow (output state)
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Time delay before availability	500ms
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Short-circuit protection	Yes (auto reset)
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Reverse Polarity Protection	Yes
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Interference to external light	1.500 lux max. (incandescent lamp), 4.500 lux max. (sunlight)
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Impulsive Overvoltage Protection	Yes
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Mechanical data

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

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

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

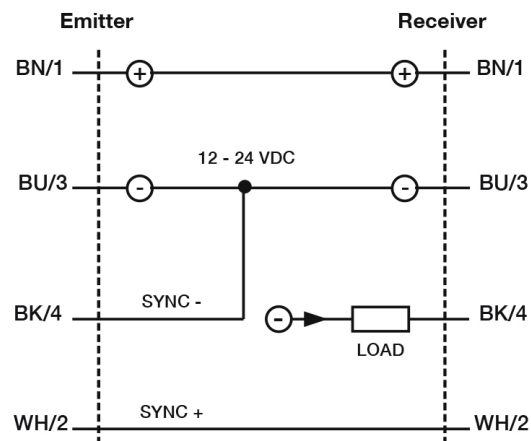
Dimensions 45x145x20

Operating Temperature -25°C...+50°C (without freeze)

Mechanical Protection IP67

CONNECTIONS

Electrical diagram



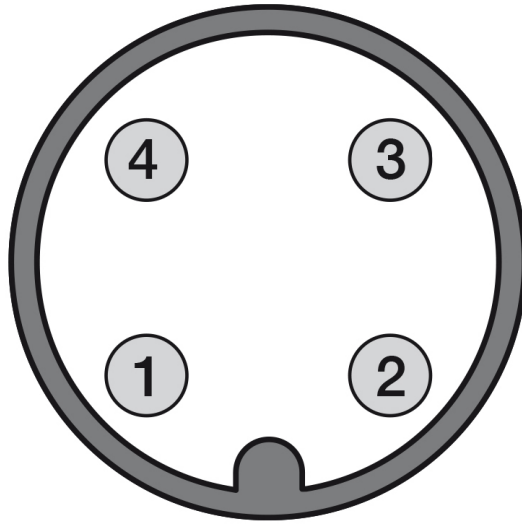
BN brown

BU blue

BK black

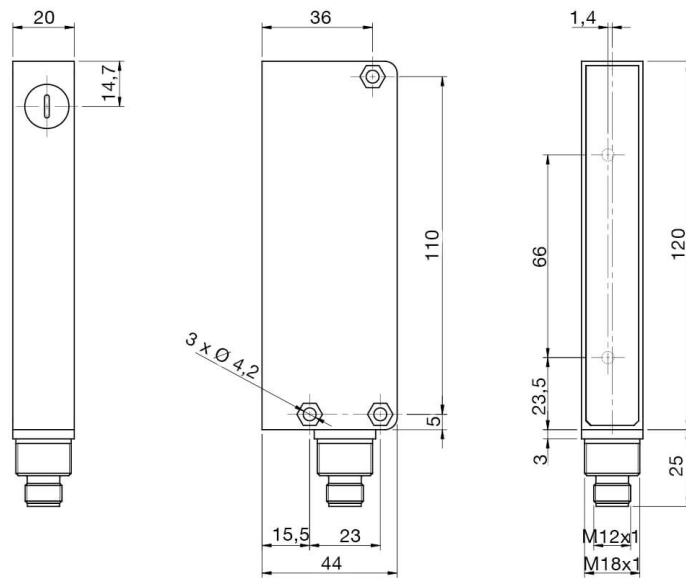
WH white

Connector



OTHERS

Dimensions



Tel. 059 420411
Fax 059 253973
E-mail
info@datasensing.com