

BX80

BX80A/4P-1H

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	30...600mm
--------------------------	------------

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	2ms

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	60mm x 132mm x 30mm
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	IP67

Accessories

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

Generical Data

Dimensions

60x132x30

Operating Temperature

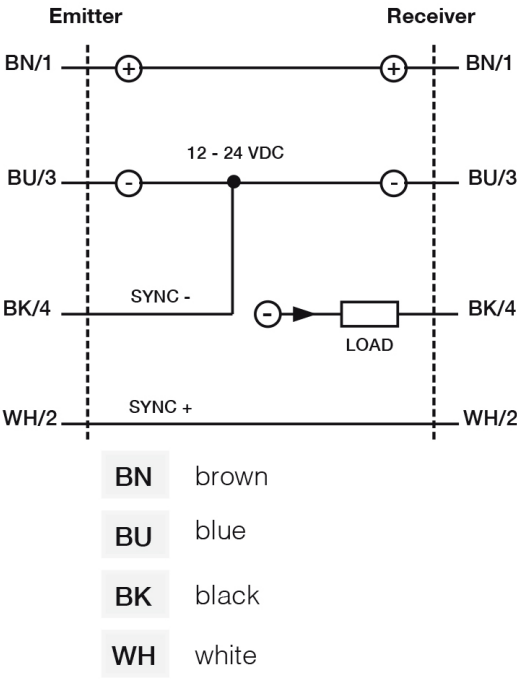
-25°C...+50°C (without freeze)

Mechanical Protection

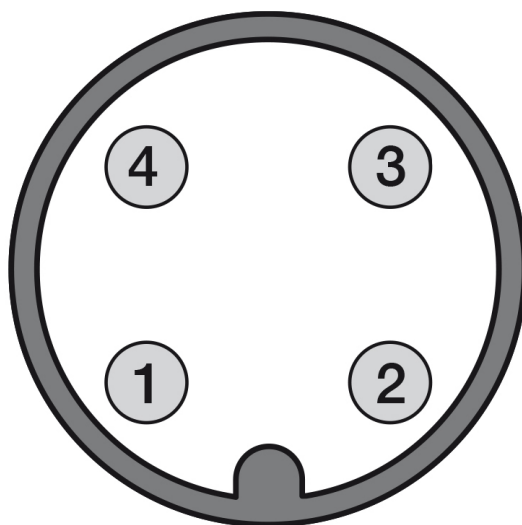
IP67

CONNECTIONS

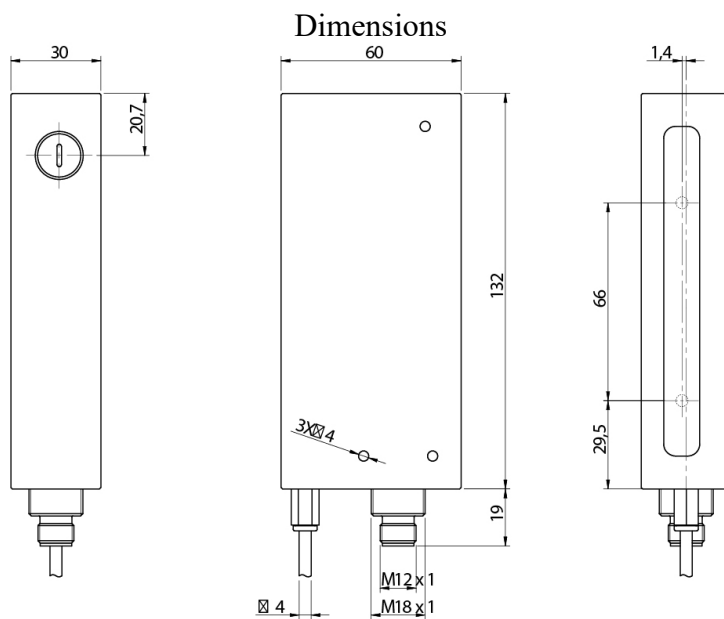
Eletrical diagram



Connector



OTHERS



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
10/08/2026
07:56:54