

BX80

BX80S/10-1H6X

Area Sen, H=70mm-6mm pitch,Emitter
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	depending on the receiver
--------------------------	---------------------------

Thermal drift of Sr	≤10%
---------------------	------

Beams space	6mm
-------------	-----

controlled height	70mm
-------------------	------

minimum detectable object	Depending on the receiver
number of rays	12
Sensitivity adjustment	Yes

Application

Function Principle	Emitter
--------------------	---------

Outputs

Output type	Emitter
Output Function	Emitter

Electrical data

Operating Voltage	12...24 VDC
No-Load supply current	100mA
Max ripple content	≤ 10%
LED indicators	Green (powerON)
Time delay before availability	500ms
Short-circuit protection	Yes (auto reset)
Reverse Polarity Protection	Yes
Emission	Infrared (880nm)
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
----------------------	--

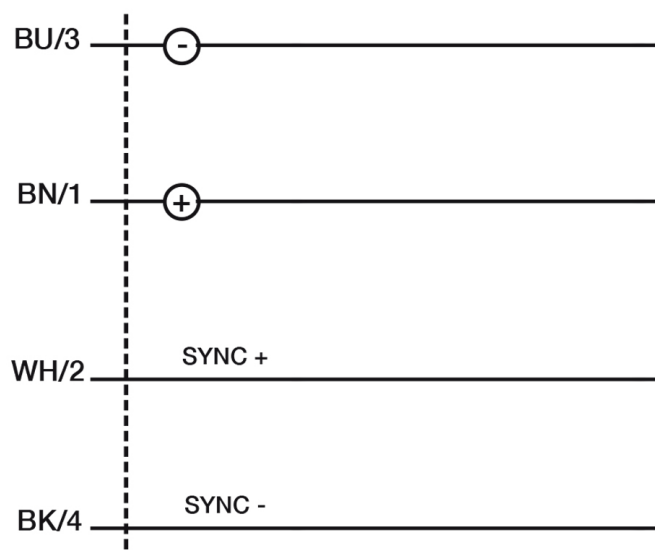
Generical Data

Dimensions	60x132x30
------------	-----------

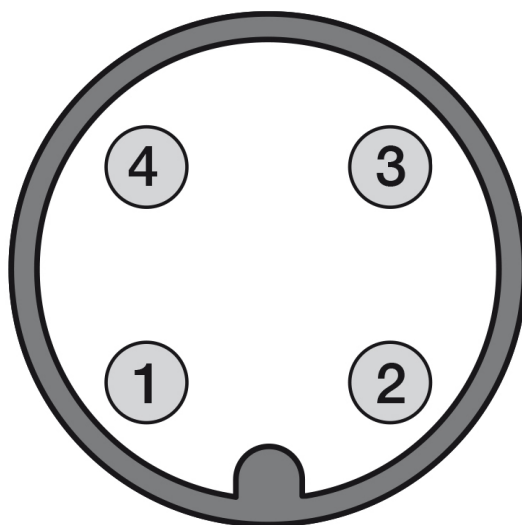
Operating Temperature	-25°C...+50°C (without freeze)
Mechanical Protection	IP67

CONNECTIONS

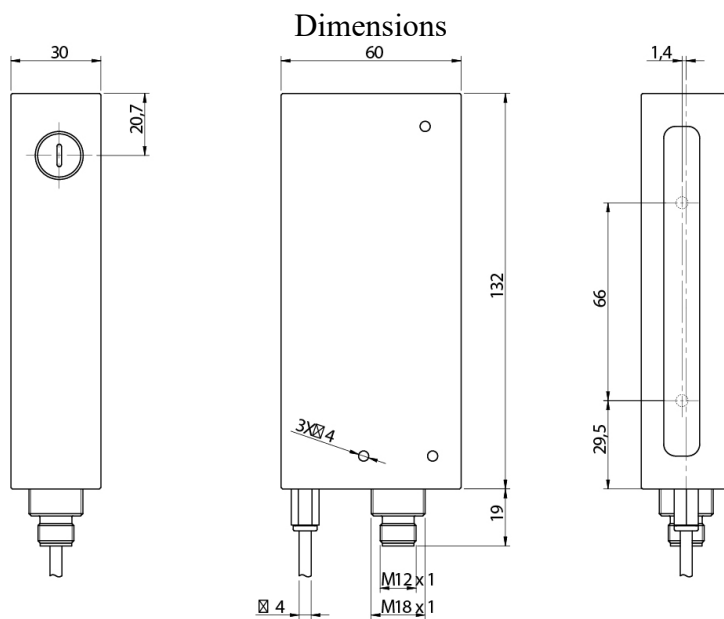
Eletrical diagram



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
03:52:23