



CX2

CX2E0RB/10-048V

**Area Sen, H=480mm-10mm
pitch,E+R,NPN+PNP**

**AREA SENSORS WITH HIGH RESOLUTION AND COMPACT
HOUSING WITH DIGITAL AND ANALOGUE OUTPUT**

OVERVIEW

- Parallel beams and floating crossbeams with variable amplitude
- Synchronization by cable. Pitch 5, 10 and 20mm
- Control height up 480mm (pitch 5mm) and up 960mm (pitch 10mm and 20mm)
- Maximum operating distance up to 3m (for 5mm pitch) and 6m (for 10mm and 20 pitch)
- Digital outputs NPN and PNP ; analogue current output (4...20mA) and analogue voltage output (0..10V), mix outputs : digital PNP and analogue voltage output (0..10V)
- Adjustment by teach-in , 2 levels of adjustment
- Blanking function . Available analogue versions TOP BEAM



TECHNICAL FEATURES

Detection properties

Nominal sensing distance	0,3 ... 6m
Beams space	10mm
controlled height	480mm
minimum detectable object	Ø 10mm

number of rays	49
----------------	----

Sensitivity adjustment	Teach-in by wire
------------------------	------------------

Application

Function Principle	emitter/receiver
--------------------	------------------

Outputs

Output type	NPN + PNP
-------------	-----------

Output Function	NO/NC
-----------------	-------

Switching frequency	23,5Hz
---------------------	--------

Electrical data

Operating Voltage	16,8... 30Vdc
-------------------	---------------

No-Load supply current	≤330mA
------------------------	--------

Load current	< 100mA
--------------	---------

Leakage current	≤ 10μA
-----------------	--------

Output voltage drop	< 1,5V @ 100mA
---------------------	----------------

Max ripple content	< 1,2Vpp
--------------------	----------

LED indicators	Blue, red and yellow (emitter) - green, red and yellow (receiver)
----------------	---

Time delay before availability	< 3s
--------------------------------	------

Short-circuit protection	Yes
--------------------------	-----

Reverse Polarity Protection	Yes
-----------------------------	-----

Emission	Infrared (880nm)
Interference to external light	IEC EN 60947-5-2
Impulsive Overvoltage Protection	Yes

Mechanical data

Dimensions	20mm x 489mm x 35mm
Housing material	Aluminium
Weight	1200g
Connections	M12 4pin + cable PVC 200mm ; M12 8pin + cable PVC 200mm
Active Head Material	PMMA
Operating temperature	-10°C...+ 55° C (without freeze)
Storage temperature	- 25°C...+ 60° C (without freeze)

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	ST151 fixing kit
----------------------	------------------

Generical Data

Dimensions

489x36x20

Operating Temperature

-10°C...+ 55° C (without freeze)

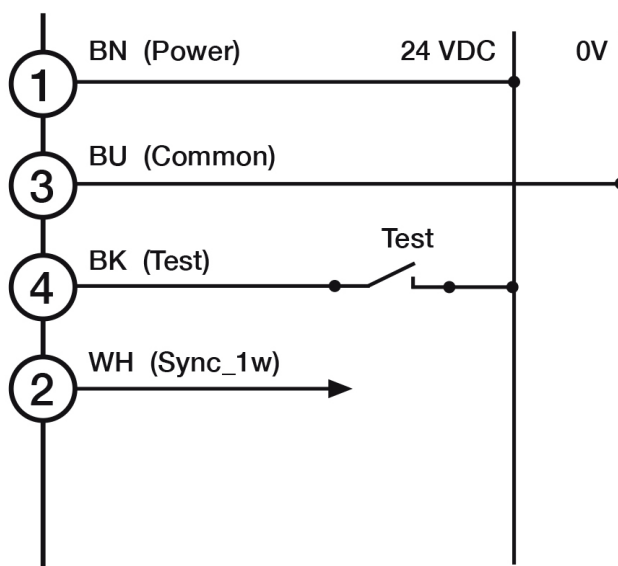
Mechanical Protection

IP67

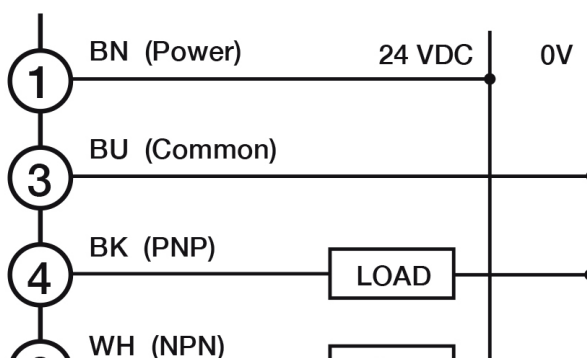
CONNECTIONS

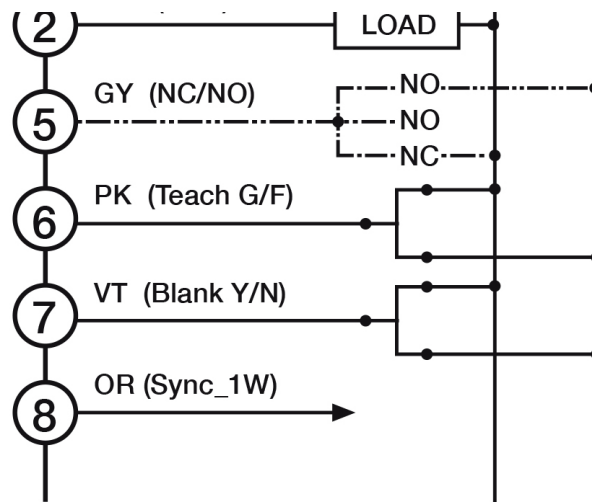
Eletrical diagram

CX2E0



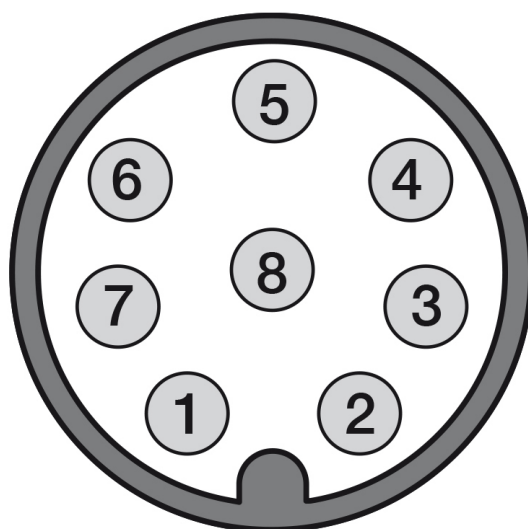
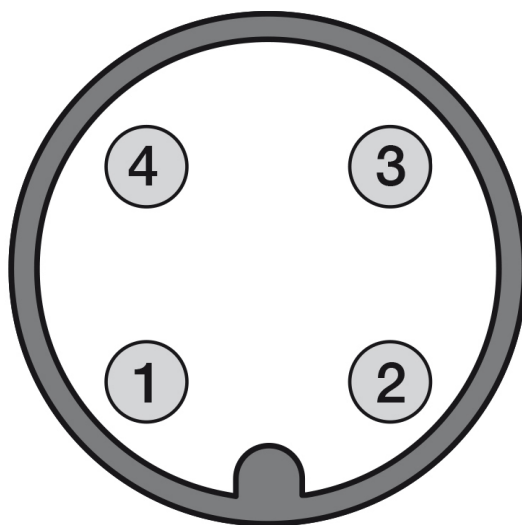
CX2RB





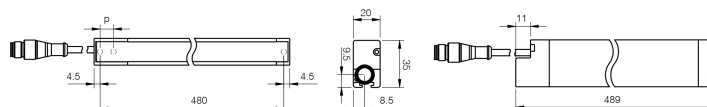
G	coarse calibration	F	fine calibration
BK	black	BU	blue
BN	brown	GY	gray
RD	red	WH	white
PK	pink	VT	violet
OR	orange		

Connector



OTHERS

Dimensions



$$H \text{ (barrier height)} = h \text{ (controlled height)} + 9 \text{ mm}$$

**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
02:53:28