



CX2

CX2E0RB/05-016V

**Area Sen, H=160mm-5mm
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 ... 3m
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Beams space	5mm
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controlled height	160mm
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minimum detectable object	Ø 2,5mm
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number of rays	33
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Sensitivity adjustment	Teach-in by wire
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Application

Function Principle	emitter/receiver
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Outputs

Output type	NPN + PNP
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Output Function	NO/NC
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Switching frequency	33,7Hz
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Electrical data

Operating Voltage	16,8... 30Vdc
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No-Load supply current	≤330mA
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Load current	< 100mA
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Leakage current	≤ 10μA
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Output voltage drop	< 1,5V @ 100mA
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Max ripple content	< 1,2Vpp
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LED indicators	Blue, red and yellow (emitter) - green, red and yellow (receiver)
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Time delay before availability	< 3s
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Short-circuit protection	Yes
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Reverse Polarity Protection	Yes
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Emission	Infrared (850nm)
Interference to external light	IEC EN 60947-5-2
Impulsive Overvoltage Protection	Yes

Mechanical data

Dimensions	20mm x 169mm x 35mm
Housing material	Aluminium
Weight	450g
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
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Generical Data

Dimensions

169x36x20

Operating Temperature

-10°C...+ 55° C (without freeze)

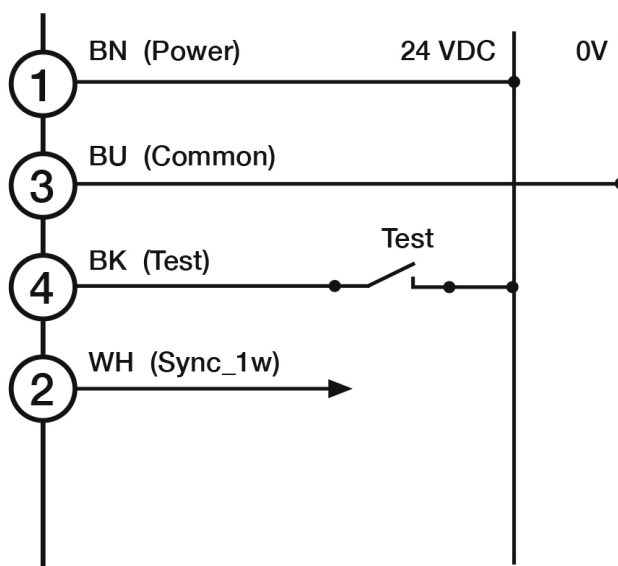
Mechanical Protection

IP67

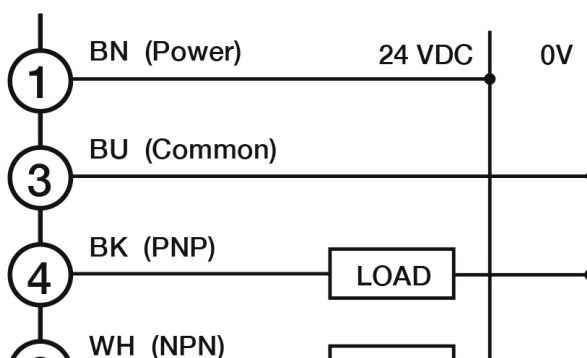
CONNECTIONS

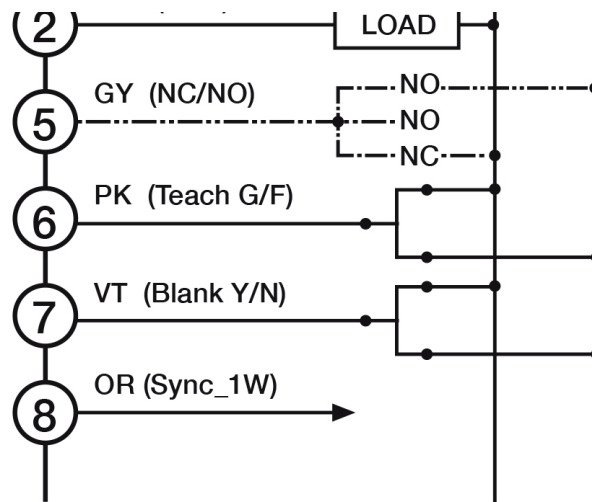
Eletrical diagram

CX2E0



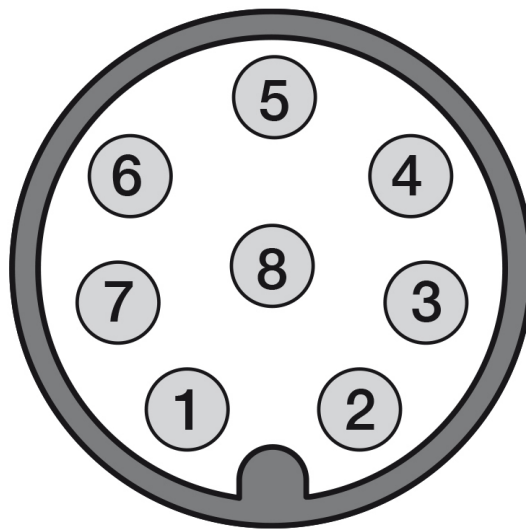
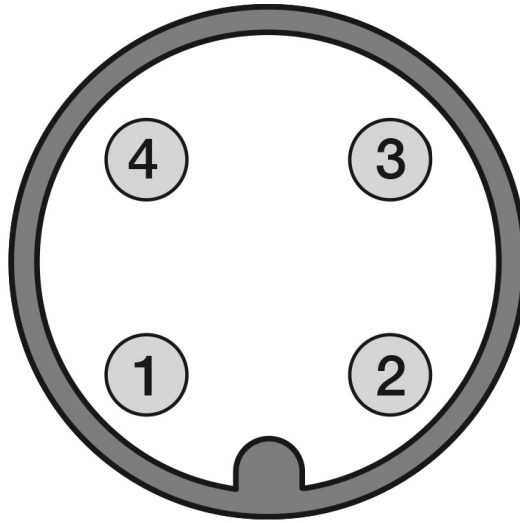
CX2RB





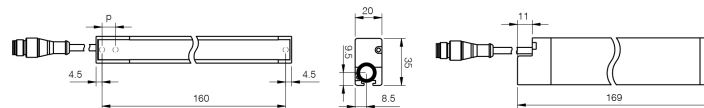
G	coarse calibration	F	fine calibration
BK	black	BU	blue
BN	brown	GY	gray
RD	red	WH	white
PK	pink	VT	violet
OR	orange		

Connector



OTHERS

Dimensions



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

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