



CX2

CX2E0RF/05-032V

Area Sen, H=320mm-5mm
pitch,E+R,PNP+V

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 (pitch10mm 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
Beams space	5mm
controlled height	320mm
minimum detectable object	Ø 5mm

number of rays	65
Sensitivity adjustment	Teach-in by wire
Application	
Function Principle	emitter/receiver
Outputs	
Output type	PNP + 0...10V
Output Function	NO/NC + positive/negative slope
Switching frequency	18,1Hz
Electrical data	
Operating Voltage	16,8... 30Vdc
No-Load supply current	$\leq 330\text{mA}$
Load current	$< 100\text{mA}$
Leakage current	$\leq 10\mu\text{A}$
Output voltage drop	$< 1,5\text{V} @ 100\text{mA}$
Max ripple content	$< 1,2\text{Vpp}$
LED indicators	Blue, red and yellow (emitter) - green, red and yellow (receiver)
Time delay before availability	$< 3\text{s}$
Short-circuit protection	Yes
Reverse Polarity Protection	Yes

Emission	Infrared (850nm)
Interference to external light	IEC EN 60947-5-2
Impulsive Overvoltage Protection	Yes

Mechanical data

Dimensions	20mm x 329mm x 35mm
Weight	750g
Housing Material	Aluminium
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 329x36x20

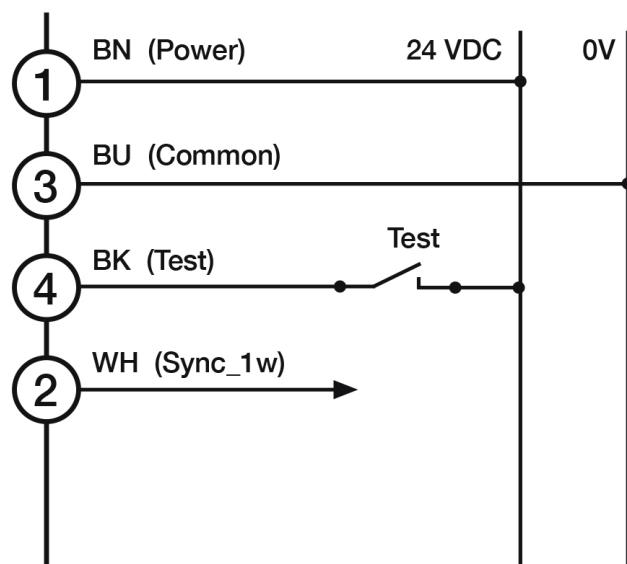
Operating Temperature -10°C...+ 55° C (without freeze)

Mechanical Protection IP67

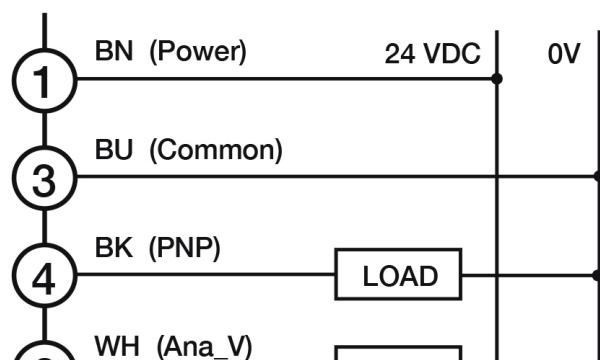
CONNECTIONS

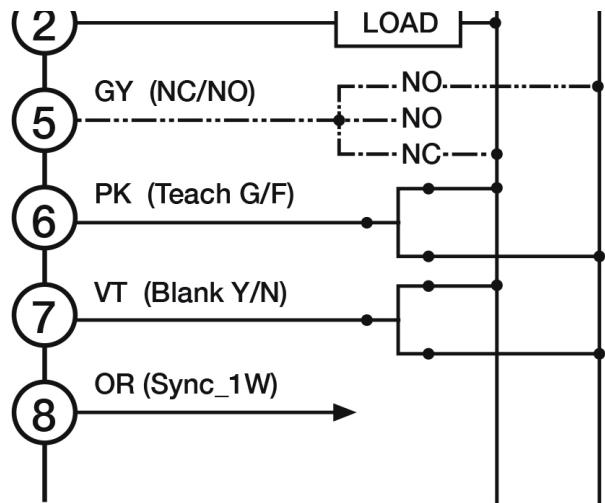
Electrical diagram

CX2E0



CX2RF





G coarse calibration **F** fine calibration

BK black **BU** blue

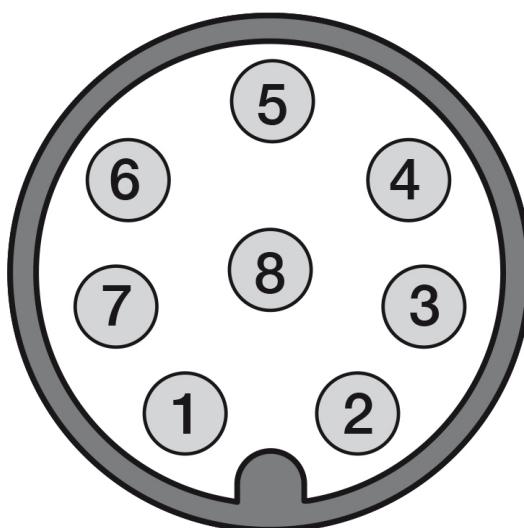
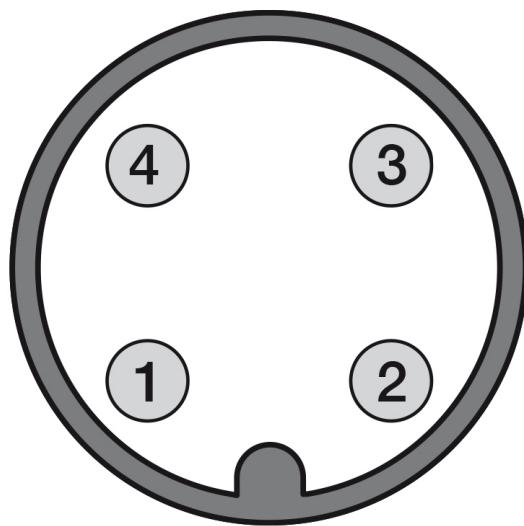
BN brown **GY** gray

RD red **WH** white

PK pink **VT** violet

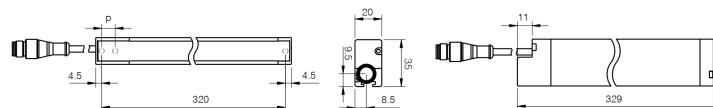
OR orange

Connector



OTHERS

Dimensions



H (barrier height) = h (controlled height) + 9 mm

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