



# CX2

## CX2E0RA/20-032V

**Area Sen, H=320mm-20mm pitch,E+R,I+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 (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 | 20mm |
|-------------|------|

|                   |       |
|-------------------|-------|
| controlled height | 320mm |
|-------------------|-------|

|                           |        |
|---------------------------|--------|
| minimum detectable object | Ø 10mm |
|---------------------------|--------|

|                                |                                                                   |
|--------------------------------|-------------------------------------------------------------------|
| number of rays                 | 17                                                                |
| Sensitivity adjustment         | Teach-in by wire                                                  |
| Application                    |                                                                   |
| Function Principle             | emitter/receiver                                                  |
| Outputs                        |                                                                   |
| Output type                    | 0,,10V + 4,,20mA                                                  |
| Output Function                | positive/negative slope                                           |
| Switching frequency            | 59,5Hz                                                            |
| 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 329mm x 35mm                                     |
| Housing material      | Aluminium                                               |
| Weight                | 750g                                                    |
| 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

329x36x20

Operating Temperature

-10°C...+ 55° C (without freeze)

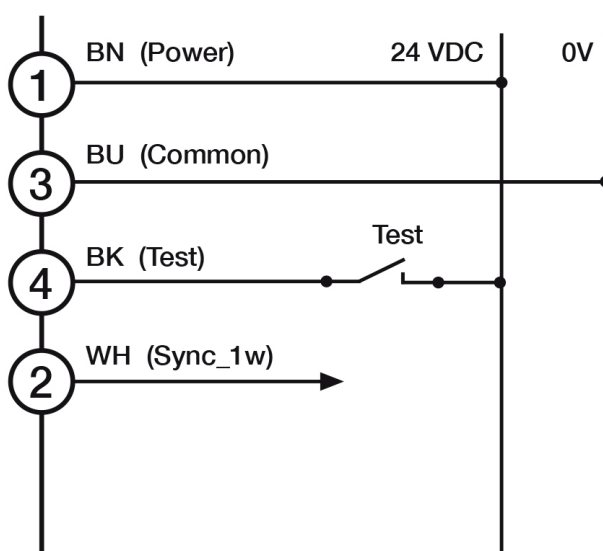
Mechanical Protection

IP67

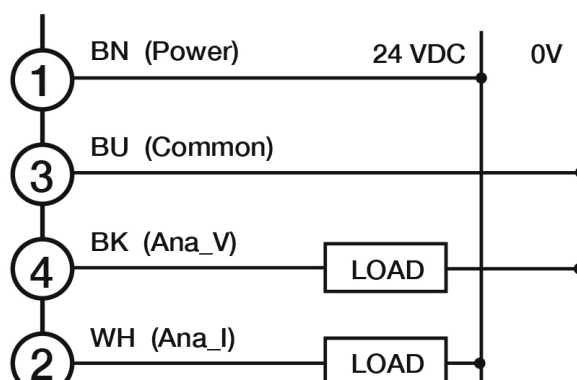
# CONNECTIONS

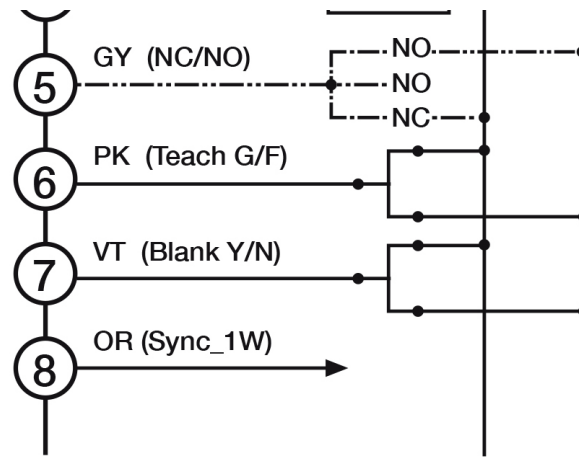
Eletrical diagram

CX2E0



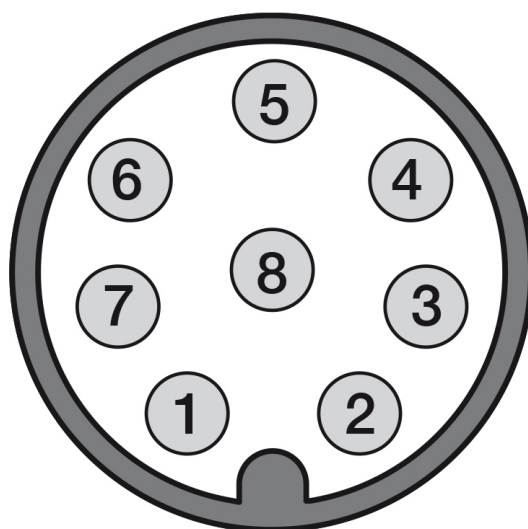
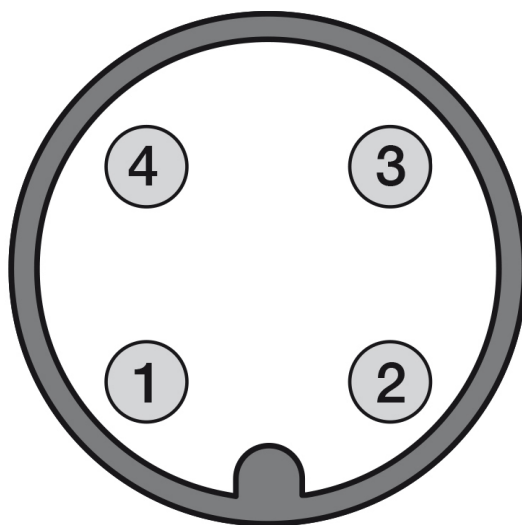
CX2RA





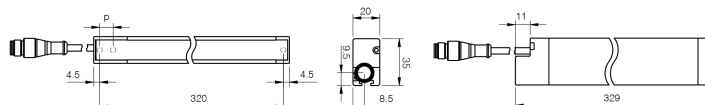
|           |                    |           |                  |
|-----------|--------------------|-----------|------------------|
| <b>G</b>  | coarse calibration | <b>F</b>  | fine calibration |
| <b>BK</b> | black              | <b>BU</b> | blue             |
| <b>BN</b> | brown              | <b>GY</b> | gray             |
| <b>RD</b> | red                | <b>WH</b> | white            |
| <b>PK</b> | pink               | <b>VT</b> | violet           |
| <b>OR</b> | orange             |           |                  |

Connector



## OTHERS

### Dimensions



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

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