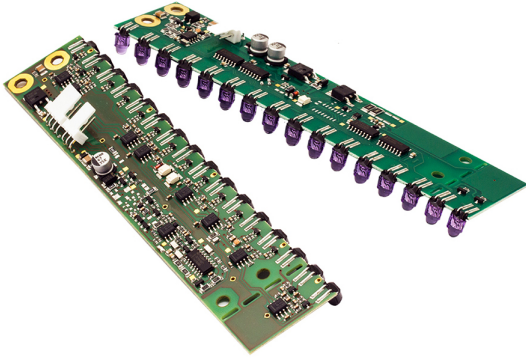


# NX



## NX16SR/XCN-CT10

**Area Sen,h=157mm-10mm pitch,E+R**  
**MEDIUM RESOLUTION AREA SENSORS WITHOUT HOUSING**

## OVERVIEW

- Complete protection against electrical damages
- LED indicators
- Crossed beams detection
- Without housing
- 16 or 14 optics
- Detection of goods in automatic vending machines
- Detection of objects with irregular shape

## TECHNICAL FEATURES

### Detection properties

|                           |            |
|---------------------------|------------|
| Nominal sensing distance  | 0,5 ... 2m |
| Beams space               | 10mm       |
| controlled height         | 150mm      |
| minimum detectable object | Ø 5mm      |
| number of rays            | 16         |
| Sensitivity adjustment    | Yes        |

|                                          |                                                                                                            |
|------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Application                              |                                                                                                            |
| Function Principle                       | emitter+receiver                                                                                           |
| Outputs                                  |                                                                                                            |
| Output type                              | NPN                                                                                                        |
| Output Function                          | NC                                                                                                         |
| Switching frequency                      | 130Hz                                                                                                      |
| Resposnse time for light/dark transition | 500μs                                                                                                      |
| Resposnse time for dark/light transition | 7ms                                                                                                        |
| Electrical data                          |                                                                                                            |
| Operating Voltage                        | 10...26VDC                                                                                                 |
| No-Load supply current                   | 150mA (emitter) - 25mA (receiver)                                                                          |
| Load current                             | 100mA                                                                                                      |
| Leakage current                          | < 10μA @ 26V                                                                                               |
| Output voltage drop                      | ≤2V@100mA                                                                                                  |
| Max ripple content                       | 10%                                                                                                        |
| LED indicators                           | emitter: yellow (poweON and emission active) - receiver: red (signal level) - yellow (output state active) |
| Time delay before availability           | < 85 ms                                                                                                    |
| Short-circuit protection                 | Yes                                                                                                        |

|                                  |                                                   |
|----------------------------------|---------------------------------------------------|
| Reverse Polarity Protection      | Yes                                               |
| Emission                         | Infrared (880nm)                                  |
| Interference to external light   | 1000lux (incandescent light) - 1500lux (sunlight) |
| Impulsive Overvoltage Protection | Yes                                               |

Mechanical data

|                       |                                                                                                                                                                                                                       |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dimensions            | 157 x 36 x 18mm                                                                                                                                                                                                       |
| Weight                | 104g                                                                                                                                                                                                                  |
| Connections           | With PCB connectors / Emitter, Conn. 3 MOLEX 22-05-7038 - Positive, Check, Common / Receiver, Conn. 1 MOLEX 22-05-7038 - Positive, Check, Common / Receiver, Conn. 2 MOLEX 22-05-7048 Positive, Check, Output, Common |
| Operating temperature | 0°C...+ 55° C (without freeze)                                                                                                                                                                                        |

Test/Approvals

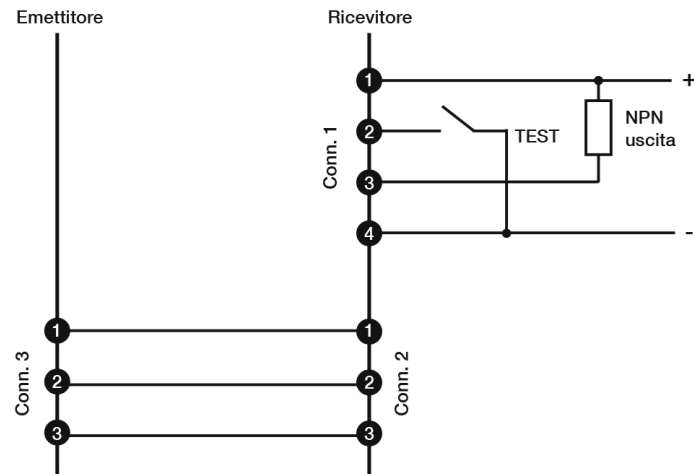
|                      |             |
|----------------------|-------------|
| Degree of protection | Not defined |
|----------------------|-------------|

Generical Data

|                       |                                |
|-----------------------|--------------------------------|
| Dimensions            | 157x36x18                      |
| Operating Temperature | 0°C...+ 55° C (without freeze) |
| Mechanical Protection | Not defined                    |

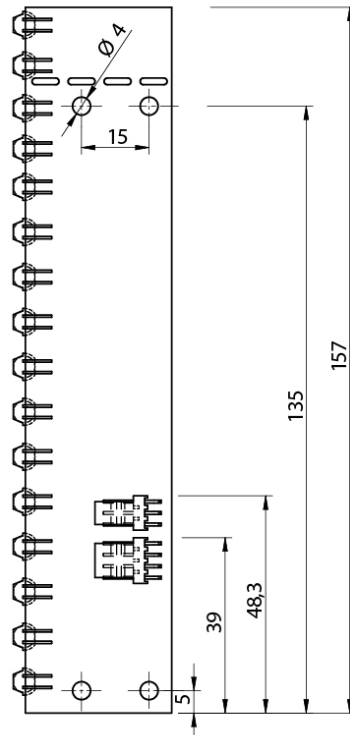
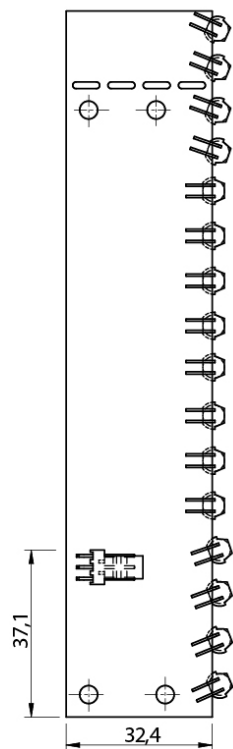
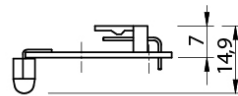
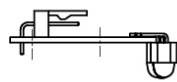
# CONNECTIONS

Eletrical diagram



## OTHERS

### Dimensions



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