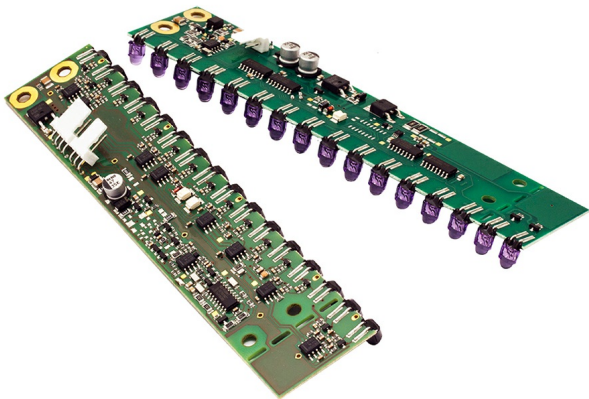
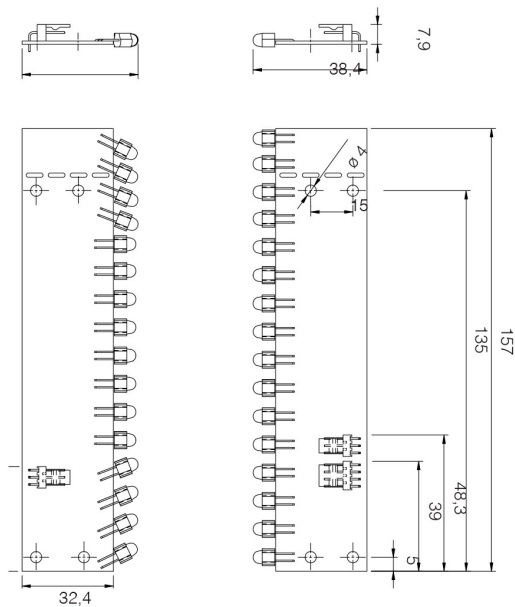




Indicative image

MEDIUM RESOLUTION AREA SENSORS WITHOUT HOUSING

- 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



Detection properties

|                           |               |
|---------------------------|---------------|
| Nominal sensing distance  | 0,25 ... 0,7m |
| 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                                                                                                        |
| <b>Electrical data</b>                   |                                                                                                            |
| 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 (supply 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)                                                                                                                                                                                        |

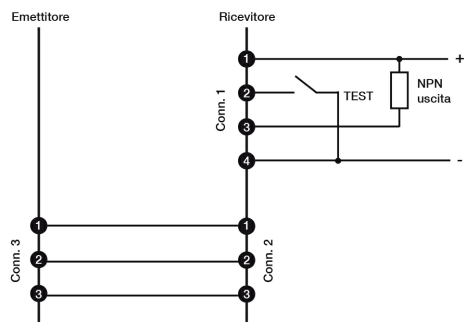
#### Test/Approvals

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

#### Generical Data

|                       |                                |
|-----------------------|--------------------------------|
| Dimensions            | 157 x 36 x 18mm                |
| Operating Temperature | 0°C...+ 55° C (without freeze) |
| Mechanical Protection | Not defined                    |

## ELECTRICAL DIAGRAMS OF THE CONNECTIONS



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