



# QX

## QXR/C0-2A

Photo.Min, NPN+PNP-NC, Cable, Receiver  
DC MINIATURIZED CUBIC PHOTOELECTRIC SENSORS

## OVERVIEW

- Axial and right angle optics
- 2 LEDs (threshold and signal margin)
- Visible red light in retro-reflective, polarized and through-beam models
- Long distances capability
- Precision beam
- Fast response time (0,75-0,5 ms)
- NPN-PNP selectable output
- High output current (>300 mA)



## TECHNICAL FEATURES

### Detection properties

|                          |         |
|--------------------------|---------|
| Nominal sensing distance | 8m      |
| Repeat Accuracy          | ≤ 5%    |
| Sensitivity adjustment   | Trimmer |

### Application

|                    |          |
|--------------------|----------|
| Function Principle | Receiver |
|--------------------|----------|

|                                |                                       |
|--------------------------------|---------------------------------------|
|                                |                                       |
| Optic position                 | Radial 90°                            |
|                                |                                       |
| Outputs                        |                                       |
| Output type                    | NPN/PNP Selectable NC                 |
| Output Function                | NC                                    |
| Switching frequency            | 500Hz                                 |
| Response time                  | 1ms                                   |
|                                |                                       |
| Electrical data                |                                       |
| Operating Voltage              | 10...30VDC                            |
| No-Load supply current         | ≤ 5mA                                 |
| Load current                   | ≤300mA                                |
| Leakage current                | ≤ 100μA @ 30Vdc                       |
| Output voltage drop            | ≤1,2V@Iload=100mA                     |
| Max ripple content             | ≤10%                                  |
| LED indicators                 | Red(output status) , Geen (stability) |
| Time delay before availability | ≤200ms                                |
| Short-circuit protection       | Yes                                   |
| Reverse Polarity Protection    | Yes                                   |
| Emission                       |                                       |

|                                |                                     |
|--------------------------------|-------------------------------------|
| Interference to external light | 3000lux Incandescent Lamp, 10000lux |
|--------------------------------|-------------------------------------|

Mechanical data

|                       |                                   |
|-----------------------|-----------------------------------|
| Dimensions            | 15x23x85                          |
| Material              | ABS                               |
| Housing material      |                                   |
| Weight                | 70g                               |
| Connections           | 2m PVC cable                      |
| Active Head Material  | Acrylic                           |
| Operating temperature | - 25°C...+ 70°C ( without freeze) |
| Diameter/Dimension    | Cubic                             |

Test/Approvals

|                       |                                                |
|-----------------------|------------------------------------------------|
| Approvals             | CE                                             |
| EMC compatibility     | EN 60947-5-2                                   |
| Shocks and vibrations | Vibration IEC 60068-2-6 / Shock IEC 60068-2-28 |
| Degree of protection  | IP65                                           |

Accessories

|                      |                                  |
|----------------------|----------------------------------|
| Supplied Accessories | ST70 mounting brakets and screws |
|----------------------|----------------------------------|

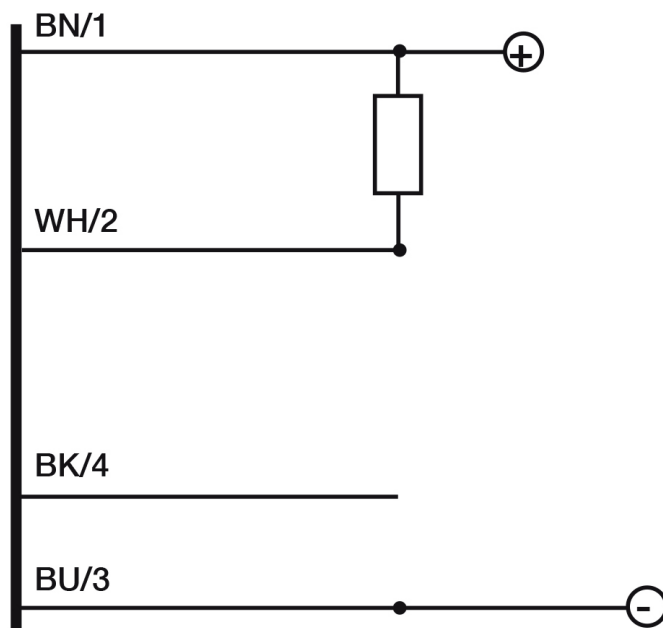
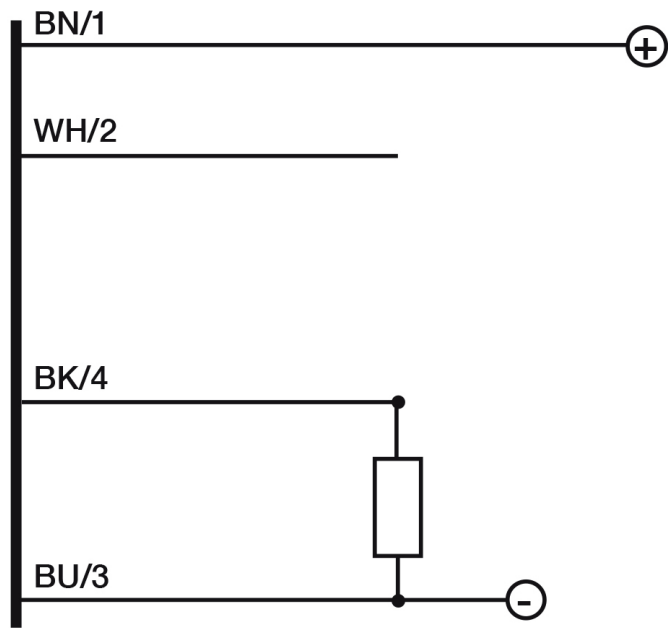
Generical Data

|  |  |
|--|--|
|  |  |
|--|--|

|                       |                                  |
|-----------------------|----------------------------------|
| Dimensions            | 15x23x40                         |
| Operating Temperature | - 15°C...+ 55°C (Without freeze) |
| Mechanical Protection | IP65                             |

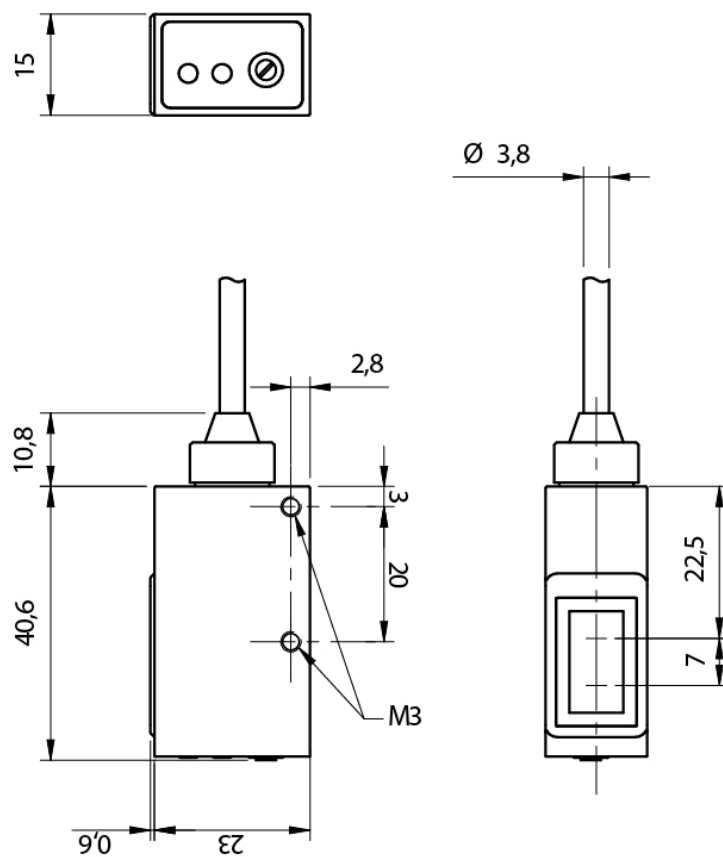
# CONNECTIONS

Eletrical diagram

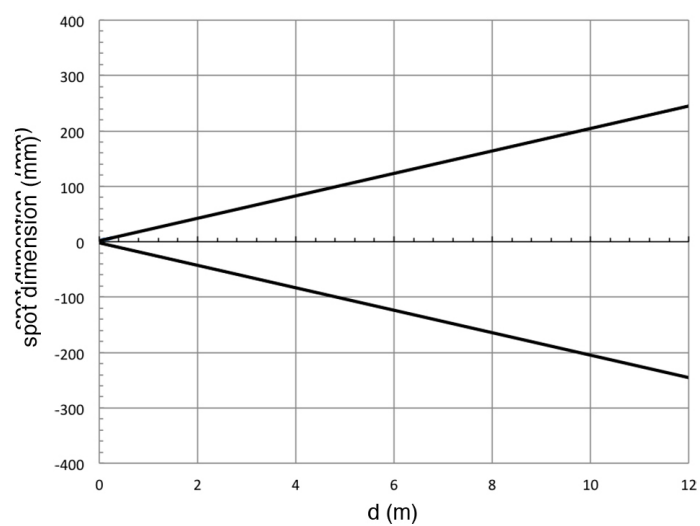


# OTHERS

Dimensions



Response curves



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