

**QX**

**QXR/A0-1A**

**Photo.Min, NPN+PNP-NO, 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
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Optic position	Axial
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#### Outputs

Output type	NPN/PNP Selectable NO
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Output Function	NO
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Switching frequency	500Hz
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Response time	1ms
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#### Electrical data

Operating Voltage	10...30VDC
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No-Load supply current	$\leq 5\text{mA}$
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Load current	$\leq 300\text{mA}$
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Leakage current	$\leq 100\mu\text{A @ } 30\text{Vdc}$
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Output voltage drop	$\leq 1,2\text{V @ } I_{\text{load}}=100\text{mA}$
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Max ripple content	$\leq 10\%$
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LED indicators	Red(output status) , Geen (stability)
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Time delay before availability	$\leq 200\text{ms}$
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Short-circuit protection	Yes
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Reverse Polarity Protection	Yes
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Emission	
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Interference to external light	3000lux Incandescent Lamp, 10000lux
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#### Mechanical data

Dimensions	15x23x76
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Material	ABS
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Housing material	
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Weight	70g
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Connections	2m PVC cable
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Active Head Material	Acrylic
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Operating temperature	- 25°C...+ 70°C ( without freeze)
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Diameter/Dimension	Cubic
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#### Test/Approvals

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

Supplied Accessories	ST70 mounting brackets and screws
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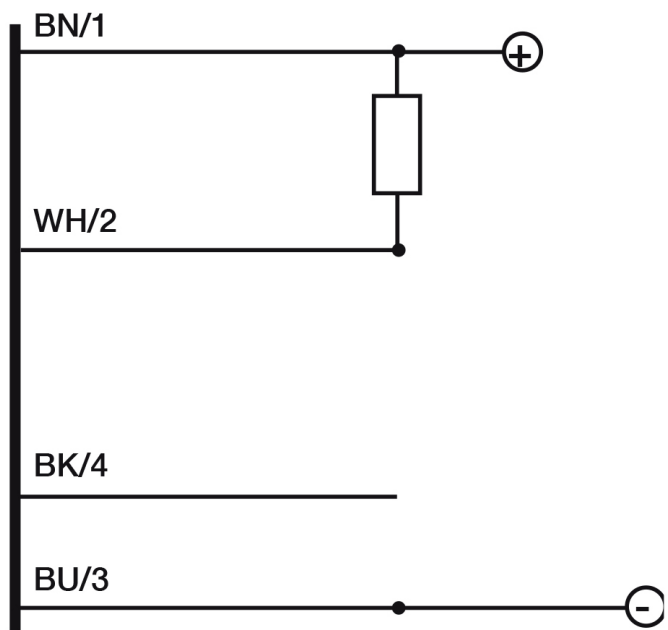
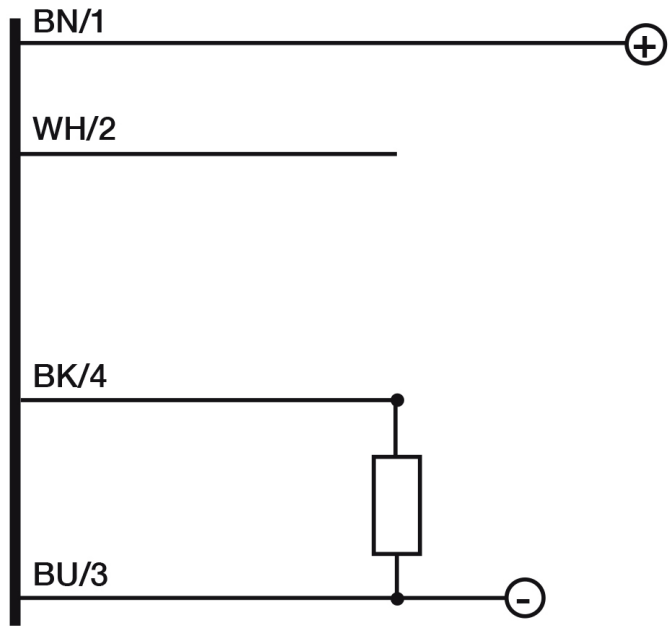
#### Generical Data

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

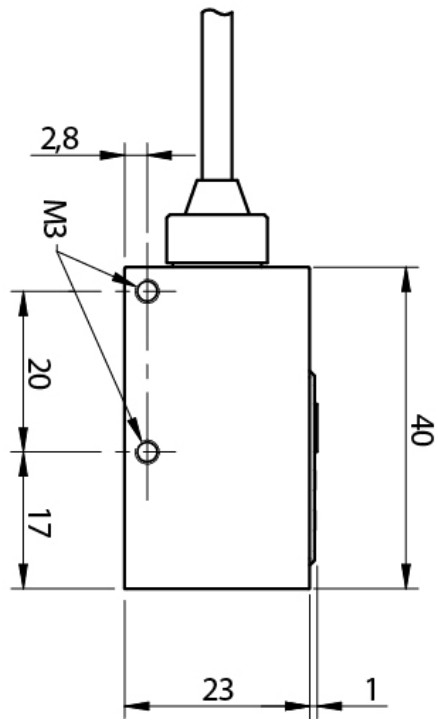
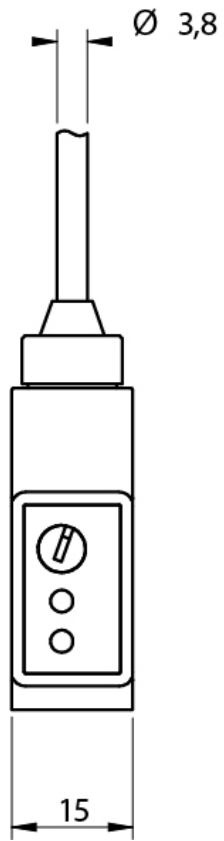
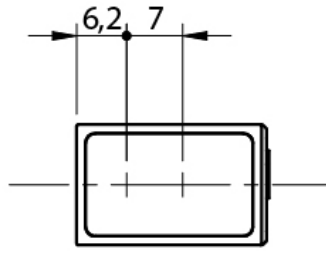
# CONNECTIONS

Electrical diagram

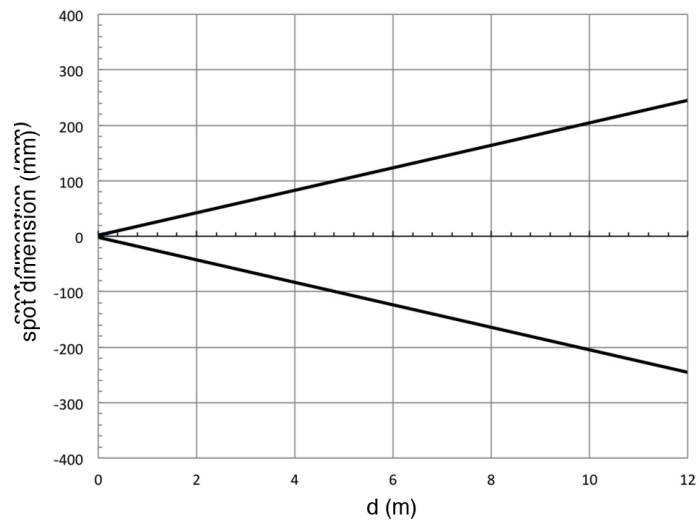


# OTHERS

Dimensions



Response curves



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