



QX

QX3/C0-1E

Photo.Min, NPN+PNP-NC, M12 plug, Diffuse
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	300mm
Repeat Accuracy	≤ 5%
Sensitivity adjustment	Trimmer

Application

Function Principle	Diffuse reflection (medium distance, ≤600mm)
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Optic position	Axial
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Outputs

Output type	NPN/PNP Selectable NC
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Output Function	NC
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Switching frequency	750Hz
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Response time	666 μ s
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Electrical data

Operating Voltage	10...30VDC
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No-Load supply current	\leq 20mA
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Load current	\leq 300mA
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Leakage current	\leq 100 μ A @ 30Vdc
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Output voltage drop	\leq 1,2V@Iload=100mA
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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 200ms
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Short-circuit protection	Yes
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Reverse Polarity Protection	Yes
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Emission	LED Infrared (880nm)
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Interference to external light	3000lux Incandescent Lamp, 10000lux
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Mechanical data

Dimensions	15x23x47
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Material	ABS
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Housing material	
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Weight	70g
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Connections	M12 plug
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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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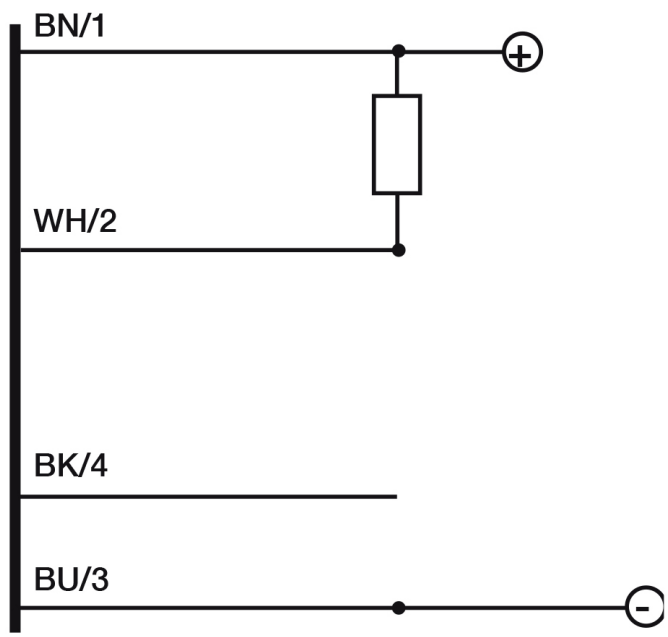
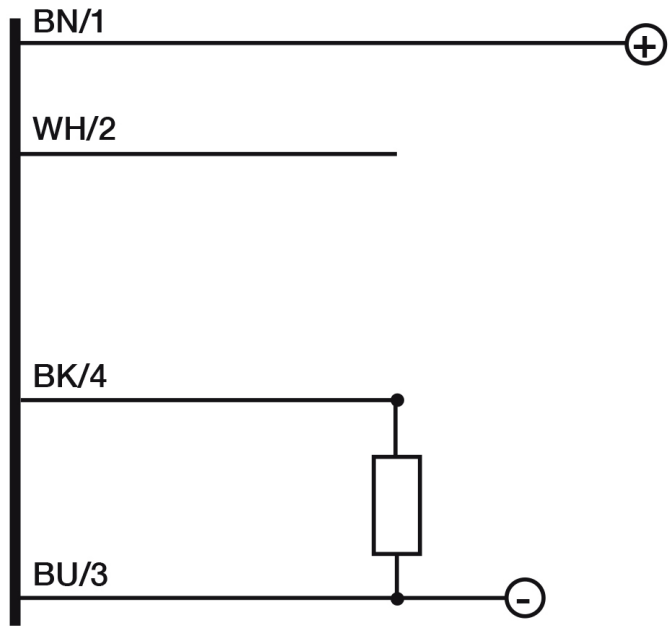
Generical Data

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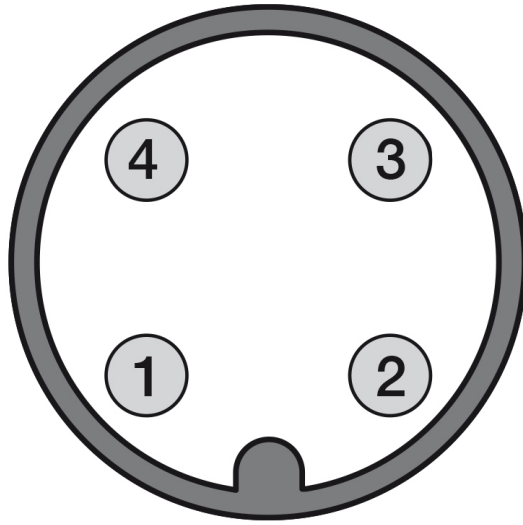
Dimensions	15x23x40
Operating Temperature	- 25°C...+ 70°C (Without freeze)
Mechanical Protection	IP65

CONNECTIONS

Electrical diagram

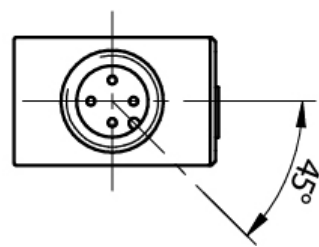
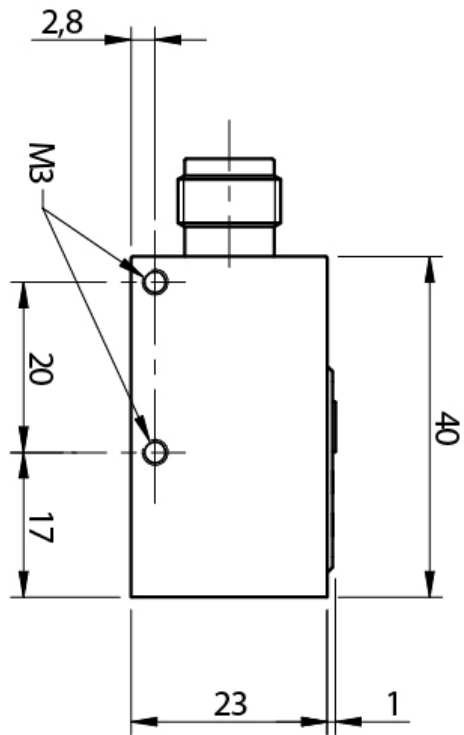
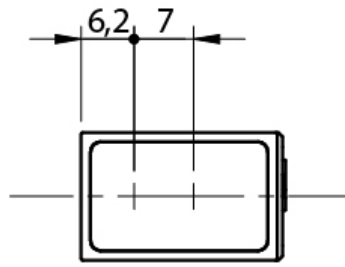


Connector

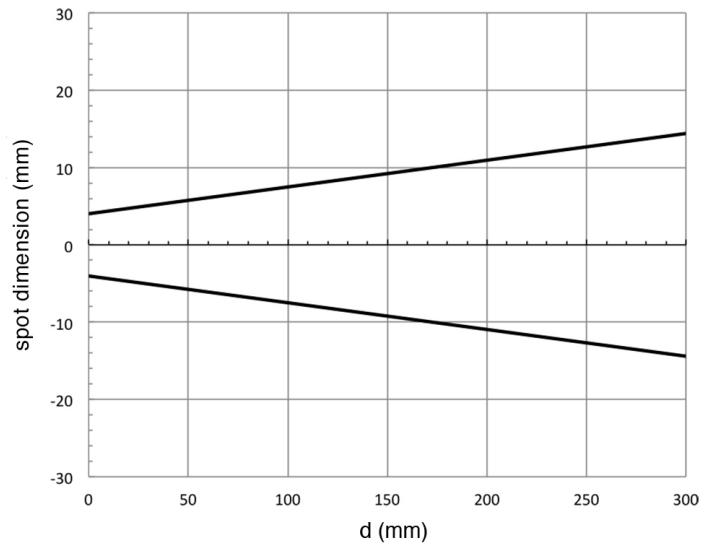


OTHERS

Dimensions



Response curves



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