

QX

QX3/A0-1F

Photo.Min, NPN+PNP-NO, M8 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
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Repeat Accuracy	≤ 5%
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Sensitivity adjustment	Trimmer
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Application

Function Principle	Diffuse reflection (medium distance, ≤600mm)
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Optic position	Axial
Outputs	
Output type	NPN/PNP Selectable NO
Output Function	NO
Switching frequency	750Hz
Response time	666μs
Electrical data	
Operating Voltage	10...30VDC
No-Load supply current	≤ 20mA
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	LED Infrared (880nm)

Interference to external light	3000lux Incandescent Lamp, 10000lux
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Mechanical data

Dimensions	15x23x42
Material	ABS
Housing material	
Weight	70g
Connections	M8 plug 4pin
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
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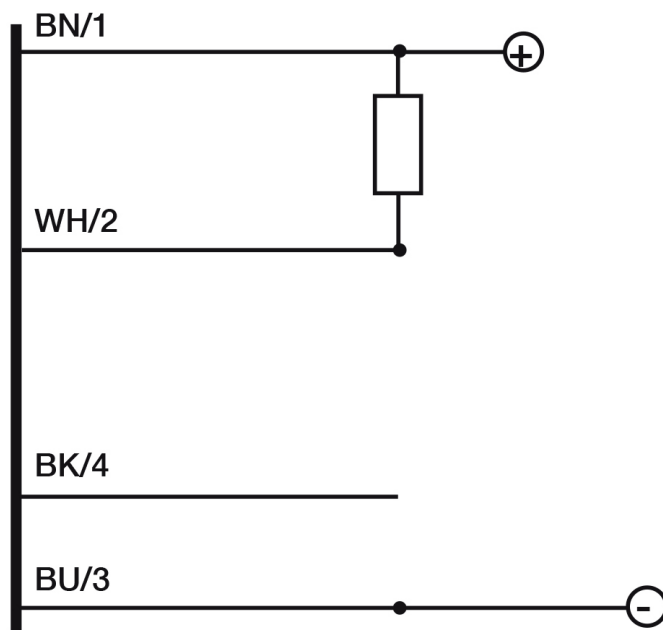
Generical Data

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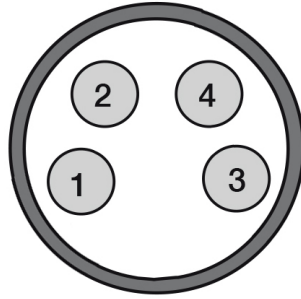
Dimensions	15x23x40
Operating Temperature	- 25°C...+ 70°C (Without freeze)
Mechanical Protection	IP65

CONNECTIONS

Eletrical diagram

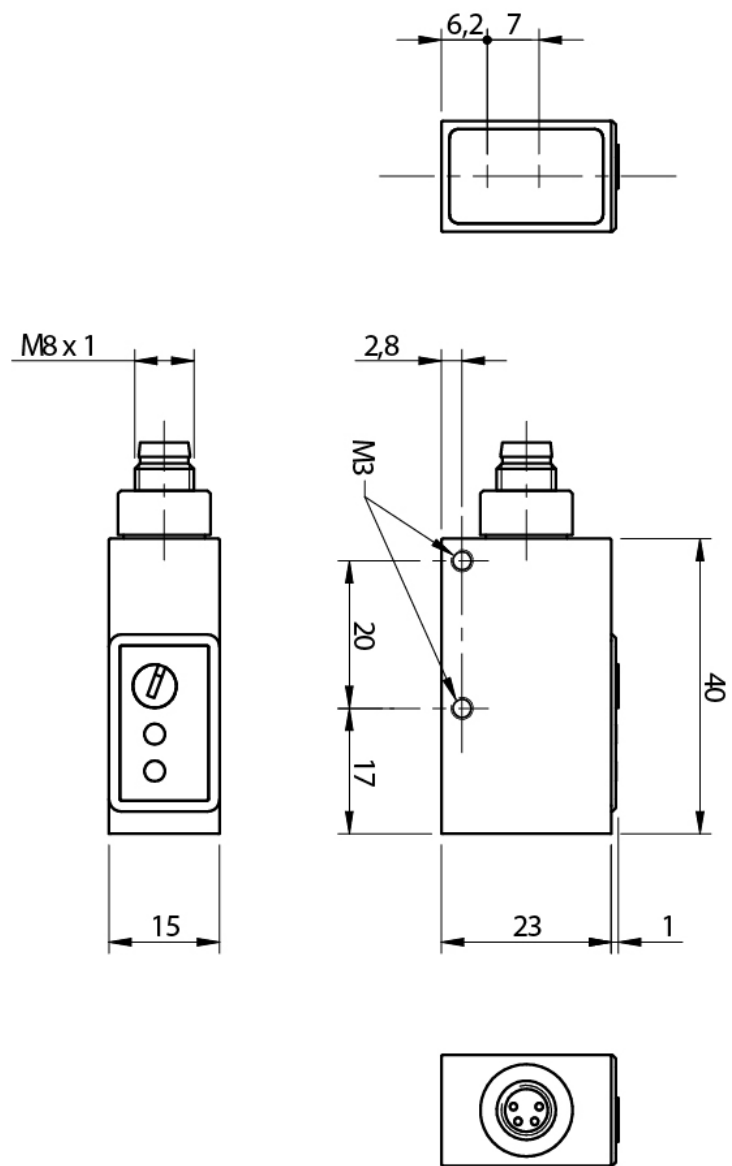


Connector

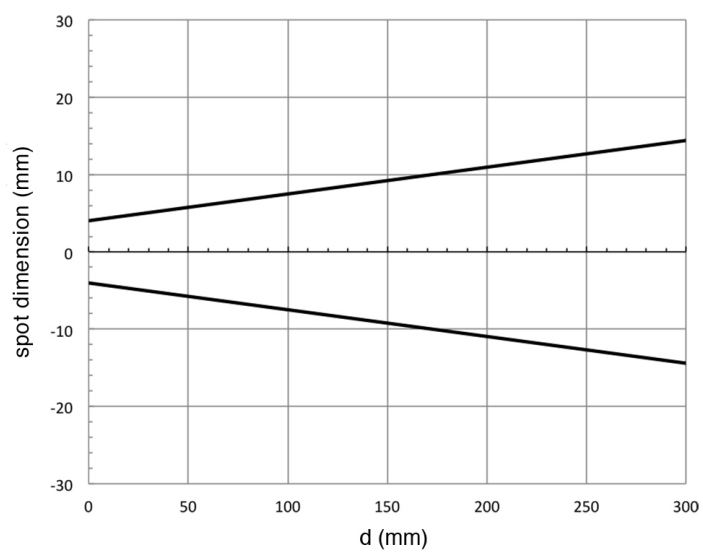


OTHERS

Dimensions



Response curves



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**date of
printing**
10/08/2026
02:55:26