



QM

QMRHD/0N-0A

Photo.Min, NPN-NO/NC, Cable, Emit+Receiv
MINIATURIZED PHOTOELECTRIC SENSORS WITH HIGH
PERFORMANCE

OVERVIEW

- Cubic miniaturized photoelectric high-performance sensors with long sensing distance
- 2 kHz switching frequency, background suppression with mechanical adjustment
- Wide range of models: diffuse reflection with short, medium and long sensing distance, polarized, reflective for transparent objects, through-beam and background suppression
- Available with cable and M8 plug exit or with M8-M12 pig-tail
- Selectable LO/DO output state
- Completely filled with resin (except background suppression models)
- Complete protection against electrical damages



TECHNICAL FEATURES

Detection properties

Nominal sensing distance	20m
Thermal drift of Sr	$\leq 10\%$ Sr
Repeat Accuracy	5%
Sensitivity adjustment	Trimmer

Application

Function Principle	Emitter and Receiver
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Optic position	Radial 90°
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Emitter Code	
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Receiver Code	
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Outputs

Output type	NPN L/D Selectable
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Output Function	L/D Selectable
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Switching frequency	2kHz
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Response time	250μs
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Electrical data

Operating Voltage	10...30VDC
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No-Load supply current	≤45mA
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Load current	≤100mA
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Leakage current	≤10μA
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Output voltage drop	≤2V@Iload=100mA
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Max ripple content	≤10%
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LED indicators	Yellow (status output), green (stability)
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Time delay before availability	≤200ms
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Short-circuit protection	Yes
Reverse Polarity Protection	Yes
Emission	LED Red (630nm)
Interference to external light	3000lux (incandescent lamp), 10000lux (sunlight)
Impulsive Overvoltage Protection	Yes

Mechanical data

Dimensions	
Housing material	PA66
Weight	
Connections	2m PVC cable
Active Head Material	PMMA
Tightening torque	1Nm
Operating temperature	
Storage temperature	- 30°C...+ 80° C (Without freeze)
Diameter/Dimension	Cubic

Test/Approvals

Approvals	CE cULus
EMC compatibility	EN 60947-5-2

Shocks and vibrations	Vibration IEC 60068-2-6 / Shock IEC 60068-2-27
Degree of protection	IP67

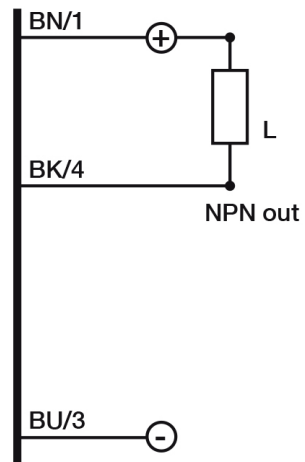
Generical Data

Dimensions	31,2x21x13mm
Operating Temperature	- 25°C...+ 70°C (Without freeze)
Mechanical Protection	IP67

CONNECTIONS

Eletrical diagram

QM**/0N

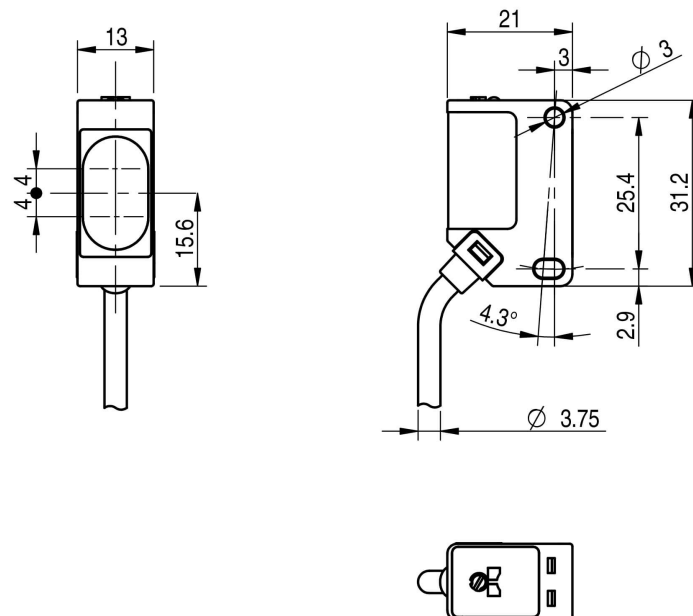


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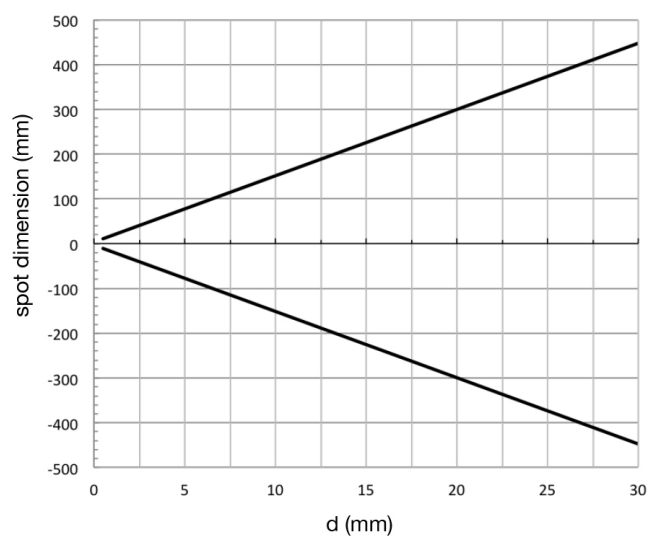


OTHERS

Dimensions



Response curves

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