



QM

QMRN/0N-0A

Photo.Min, NPN-NO/NC, Cable, Reflex
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	5m
Thermal drift of Sr	$\leq 10\%$ Sr
Repeat Accuracy	5%
Sensitivity adjustment	Trimmer

Application

Function Principle

Polarized

Notes

On RL110 reflector

Optic position

Radial 90°

Outputs

Output type

NPN L/D Selectable

Output Function

L/D Selectable

Switching frequency

2kHz

Response time

250μs

Electrical data

Operating Voltage

10...30VDC

No-Load supply current

≤ 30mA

Load current

≤100mA

Leakage current

≤10μA

Output voltage drop

≤2V@Iload=100mA

Max ripple content

≤10%

LED indicators

Yellow (status output), green (stability)

Time delay before availability

≤200ms

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	31,2x21x13mm
Housing material	PA66
Weight	52g
Connections	2m PVC cable
Active Head Material	PMMA
Tightening torque	1Nm
Operating temperature	- 25°C...+ 70° C (Without freeze)
Storage temperature	- 30°C...+ 80° C (Without freeze)
Diameter/Dimension	Cubic

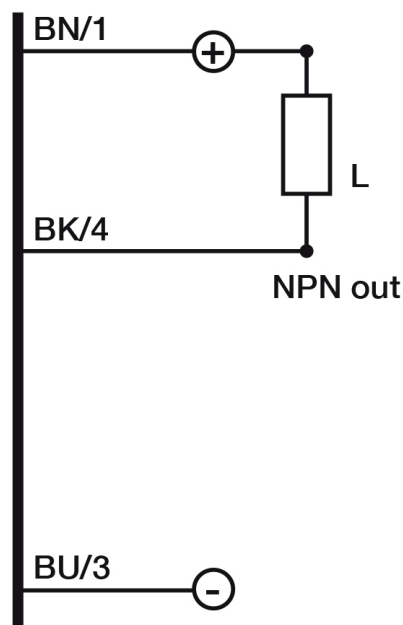
Test/Approvals

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

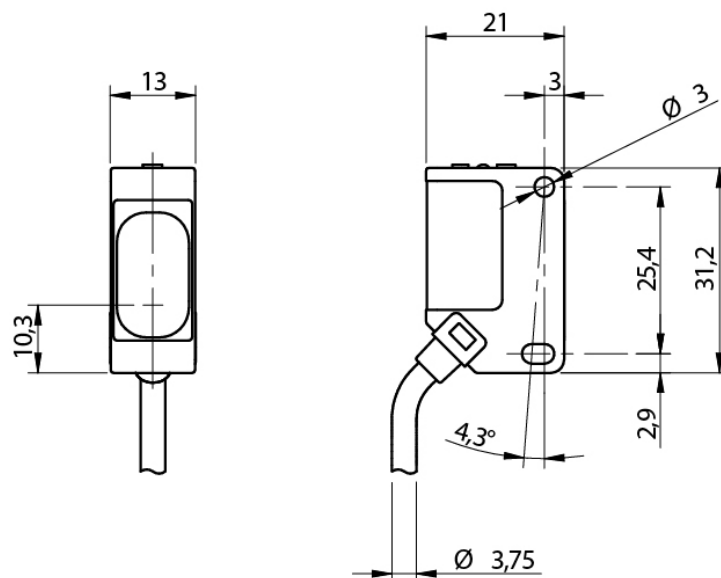
CONNECTIONS

Eletrical diagram

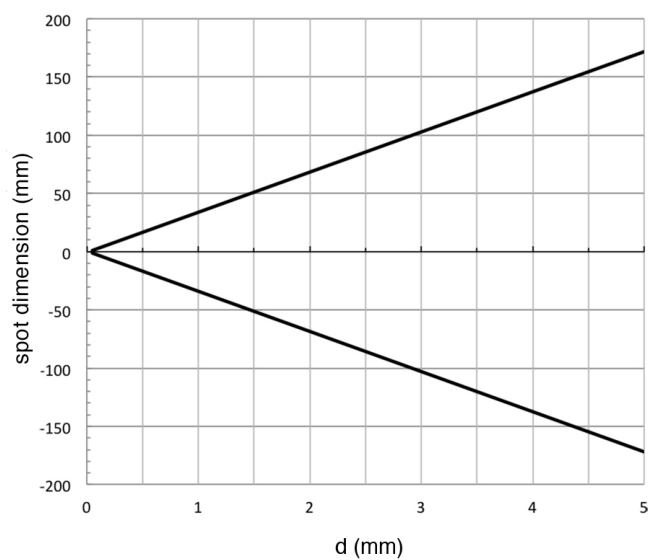


OTHERS

Dimensions



Response curves



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date of
printing
10/08/2026
03:08:15