


# QF

# QFID/BP-1A

**Photo.Mini,PNP-NO+NC,Cable,Receiver**

**METALLIC CUBIC MINIATURIZED PHOTOELECTRIC SENSORS. FOR HARSH ENVIRONMENTS OR FOOD AND BEVERAGE APPLICATIONS.**

## OVERVIEW

## TECHNICAL FEATURES

Detection properties

| | |
|---|---|
| Nominal sensing distance | 15m |
| Repeat Accuracy | 5% |
| Sensitivity adjustment | No |

Application

| | |
|---|---|
| Function Principle | Diffuse reflection (medium distance, ≤600mm) |
| Emitter/Receiver | Receiver |
| Optic position | Radial 90° |

Outputs

| | |
|---|---|
| Output type | PNP NO+NC |
| Output Function | NO+NC |
| Switching frequency | 500Hz |
| Response time | 1ms |

Electrical data

| | |
|---|---|
| Operating Voltage | 10…30VDC |
| No-Load supply current | ≤ 20mA |
| Load current | ≤100mA |
| Leakage current | ≤100μA |
| Output voltage drop | ≤2V@Iload=100mA |
| Max ripple content | ≤10% |
| LED indicators | Yellow (status output), green (stability, powerON) |
| Time delay before availability | ≤200ms |
| Short-circuit protection | Yes |
| Reverse Polarity Protection | Yes |
| Emission | LED Infrared (850nm) |
| Interference to external light | ≤60000lux |

| | |
|---|---|
| Impulsive Overvoltage Protection | Yes |

Mechanical data

| | |
|---|---|
| Dimensions | 31,4x21x11mm |
| Housing material | Stainless steel AISI 316L |
| Weight | 100g |
| Connections | 2m PVC cable |
| Active Head Material | PPSU |
| Operating temperature | - 25°C…+ 60° C (Without freeze) |
| Storage temperature | -40° ... +70°C |
| Diameter/Dimension | Cubic |

Test/Approvals

| | |
|---|---|
| Approvals | CE cULus ECOLAB |
| EMC compatibility | EN 60947-5-2 |
| Shocks and vibrations | Vibration IEC 60068-2-6 / Shock IEC 60068-2-27 |
| Degree of protection | IP68, IP69K |

Accessories

| | |
|---|---|
| Supplied Accessories | Mouting bracket screwdriver |

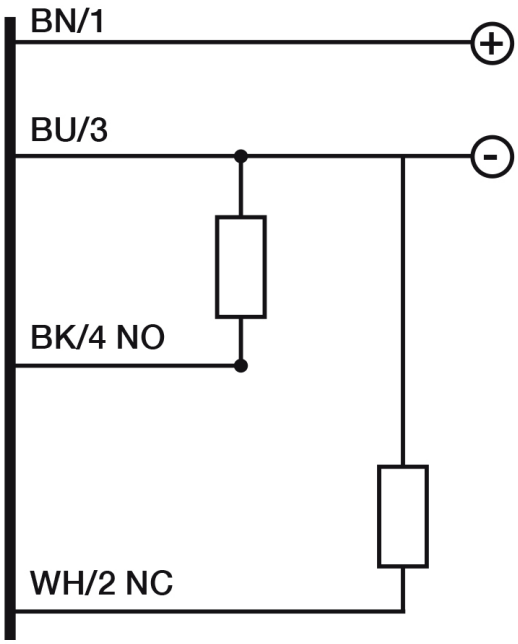
Generical Data

| | |
|---|---|
| Dimensions | 31,4x21x11mm |

| | |
|---|---|
| Operating Temperature | - 15°C...+ 55°C (Without freeze) |
| Mechanical Protection | IP68, IP69K |

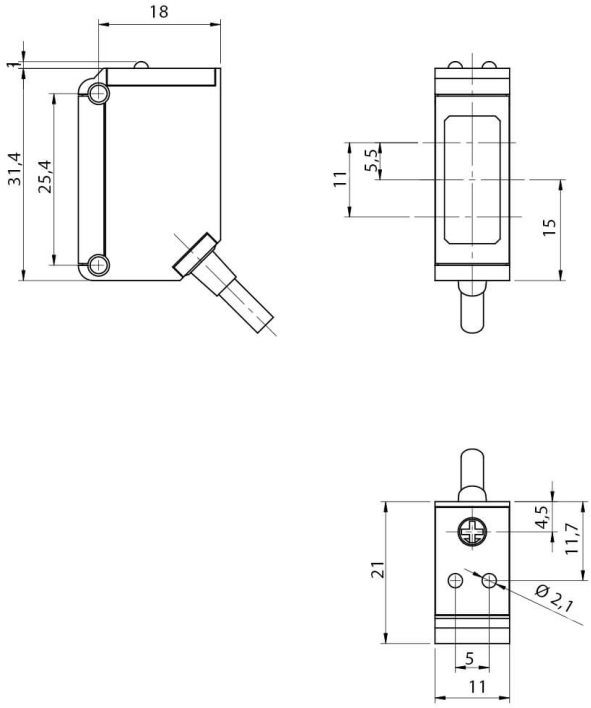
# CONNECTIONS

Eletrical diagram

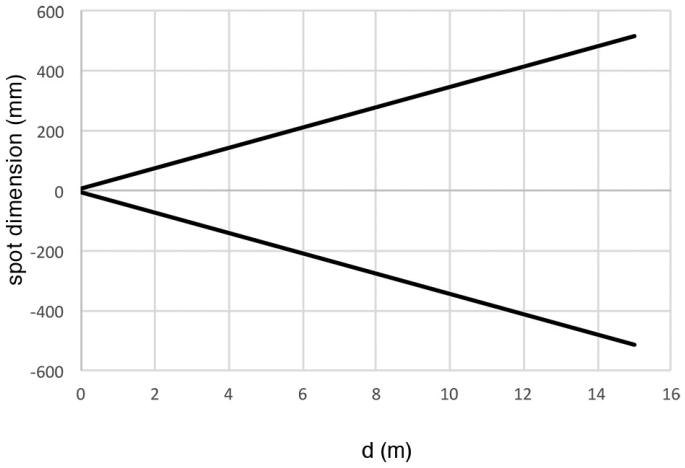



# OTHERS

Dimensions




Response curves




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