



# Q50

## Q50I8/0T-0A

**Photo.50x50,Relay-NO+NC,Cable,Diff.**  
**COMPACT CUBIC 50 X 50 MM UNIVERSAL**  
**PHOTOELECTRIC SENSOR**

## OVERVIEW

- Universal photoelectric sensor, excellent performances and high versatility due to the wide choice of different versions available
- Cable output or revolving connector, NPN/PNP outputs for Vdc models or SPDT relay output for multi -voltage Vdc / Vac models
- Complementary outputs NO + NC available on the Vdc models or selectable output NO/NC available on the multi-voltage Vdc/Vac models
- Totally protected against electrical damages
- Wide choice of optical functions available: Diffuse: 2 m; background suppression: 500 mm; polarized: 6m; through beam: 20 m. Dual multifunction output state LEDs

## TECHNICAL FEATURES

### Detection properties

|                                       |         |
|---------------------------------------|---------|
| Nominal sensing distance              | 2m      |
| Sensitivity adjustment                | Trimmer |
| Minimum sensing distance (blind zone) | 0,3m    |

### Application

|                    |                                            |
|--------------------|--------------------------------------------|
| Function Principle | Diffuse reflection (long distance, >600mm) |
|--------------------|--------------------------------------------|

|                                |                                                    |
|--------------------------------|----------------------------------------------------|
|                                |                                                    |
| Optic position                 | Axial                                              |
|                                |                                                    |
| Outputs                        |                                                    |
| Output type                    | Relay SPDT NO+NC                                   |
| Output Function                | NO+NC                                              |
| Switching frequency            | 20Hz                                               |
| Response time                  | 25ms                                               |
|                                |                                                    |
| Electrical data                |                                                    |
| Operating Voltage              | 12...240VDC /24...240VAC/50-60Hz                   |
| No-Load supply current         | 2,5VA ( relay ON)                                  |
| LED indicators                 | Yellow (Output status), Green (stability, powerON) |
| Time delay before availability | ≤200ms                                             |
| Short-circuit protection       | Yes                                                |
| Reverse Polarity Protection    | Yes                                                |
| Emission                       | LED Infrared (850nm)                               |
|                                |                                                    |
| Mechanical data                |                                                    |
| Dimensions                     | 50X50mm                                            |
| Material                       | PC/ABS                                             |
| Housing material               | PC/ABS                                             |
|                                |                                                    |

|                       |                                              |
|-----------------------|----------------------------------------------|
| Weight                | 200g                                         |
| Connections           | 2m PVC cable                                 |
| Active Head Material  | PMMA                                         |
| Operating temperature | - 20°C...+ 60°C ( UL omologation 0°C...60°C) |
| Diameter/Dimension    | Cubic                                        |

Test/Approvals

|                       |                                                |
|-----------------------|------------------------------------------------|
| EMC compatibility     | EN 60947-5-2                                   |
| Shocks and vibrations | Vibration IEC 60068-2-6 / Shock IEC 60068-2-53 |
| Degree of protection  | IP67                                           |

Accessories

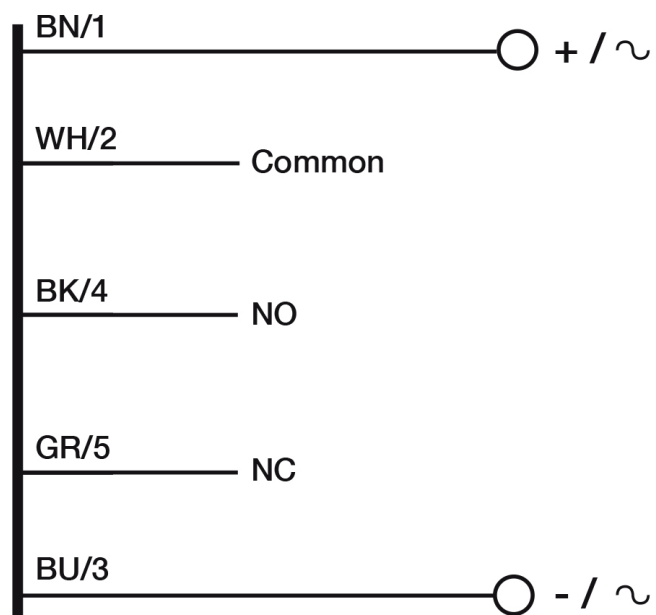
|                      |                  |
|----------------------|------------------|
| Supplied Accessories | Mounting bracket |
|----------------------|------------------|

Generical Data

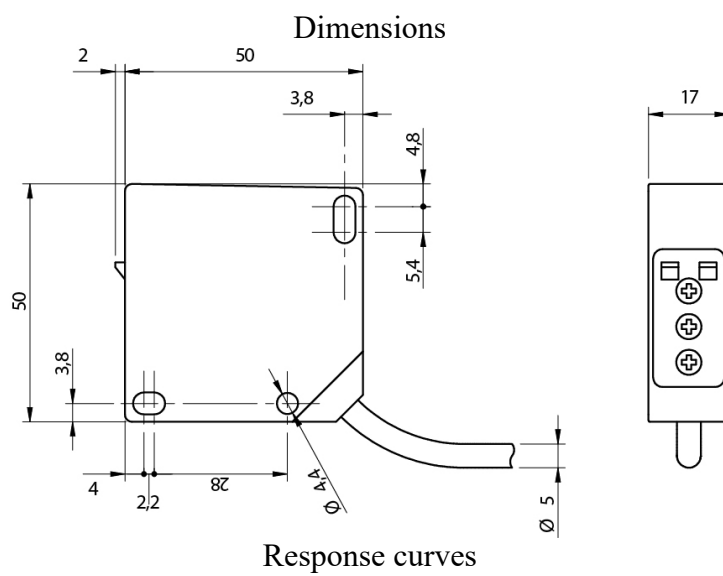
|                       |                                  |
|-----------------------|----------------------------------|
| Dimensions            | 50x50x17mm                       |
| Operating Temperature | - 20°C...+ 60°C (Without freeze) |
| Mechanical Protection | IP67                             |

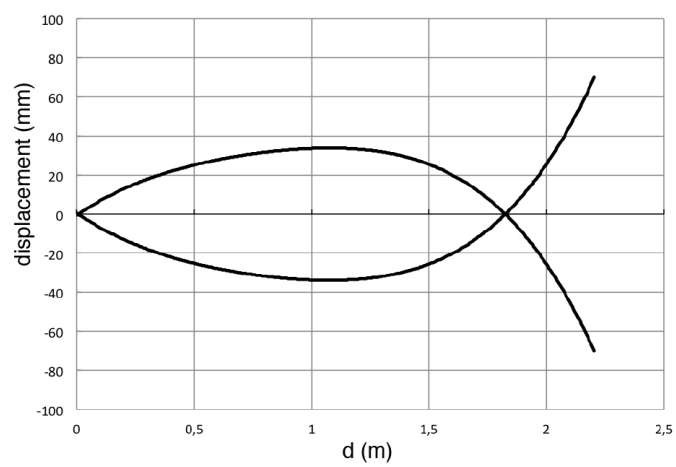
# CONNECTIONS

Eletrical diagram



## OTHERS





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