



# UQ

## UQ1C/G4-0E

**Ultra.Hybrid,NPN+4-20mA,M12  
plug,Diffuse**  
CUBIC ULTRASONIC SENSOR WITH M18 HEAD

## OVERVIEW



## TECHNICAL FEATURES

### Detection properties

|                                       |                 |
|---------------------------------------|-----------------|
| Nominal sensing distance              | 800mm           |
| Thermal drift of Sr                   | ±5%             |
| Resolution                            | 3mm             |
| Sensitivity adjustment                | Teach-in button |
| Hysteresis                            | 1%              |
| thermal compensation                  | Yes             |
| Minimum sensing distance (blind zone) | 60mm            |

|                          |                                 |
|--------------------------|---------------------------------|
| Linearity error          | 1%                              |
| Effective Aperture Angle | 8° ± 2°                         |
| Application              |                                 |
| Function Principle       | Diffuse reflection              |
| Outputs                  |                                 |
| Output type              | NPN + 4...20mA                  |
| Output Function          | NO/NC + positive/negative slope |
| Switching frequency      | 5Hz                             |
| Response time            | 400ms                           |
| Electrical data          |                                 |
| Operating Voltage        | 10 - 30Vdc                      |
| No-Load supply current   | ≤35mA                           |
| Load current             | 100mA                           |
| Leakage current          | 10µA @ 30Vcc                    |
| Output voltage drop      | 2,2Vmax. @ IL=100 mA            |
| Max ripple content       | 5%                              |
| LED indicators           | verde: echo - giallo: uscita    |
| Short-circuit protection | si                              |
|                          |                                 |

|                                  |    |
|----------------------------------|----|
| Reverse Polarity Protection      | si |
| Impulsive Overvoltage Protection | si |

**Mechanical data**

|                       |                                 |
|-----------------------|---------------------------------|
| Dimensions            | 53x38x20mm                      |
| Material              | PBT                             |
| Connections           | M12 Plug                        |
| Tightening torque     | 1Nm                             |
| Operating temperature | - 20°C...+ 70°C                 |
| Storage temperature   | - 35°C...+ 80° C senza ghiaccio |
| Transducer Frequency  | 230kHz                          |
| Diameter/Dimension    | Cubic                           |

**Test/Approvals**

|                       |                       |
|-----------------------|-----------------------|
| Approvals             | CE cULus              |
| EMC compatibility     | IEC 60947-5-2         |
| Shocks and vibrations | IEC EN60947-5-2 / 7.4 |
| Degree of protection  | IP67                  |

**Accessories**

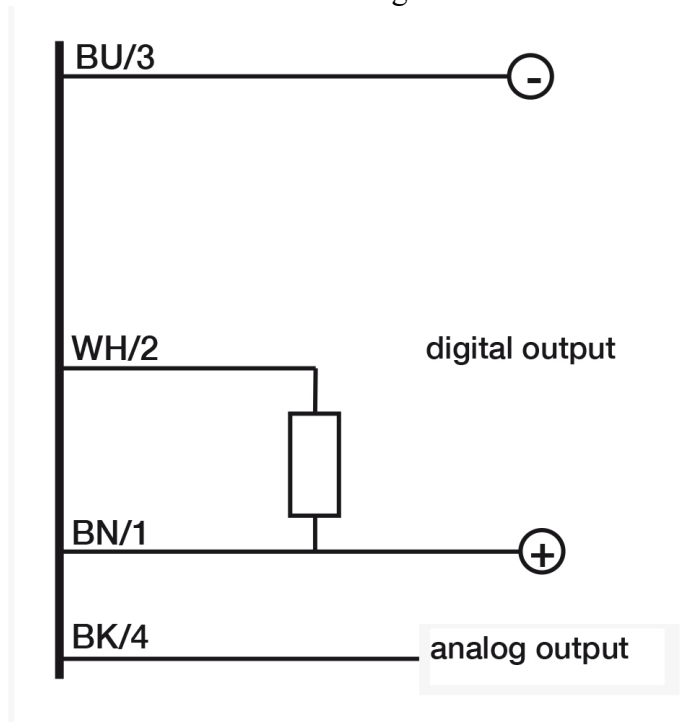
|                      |             |
|----------------------|-------------|
| Supplied Accessories | 1 M18x1 nut |
|----------------------|-------------|

## Generical Data

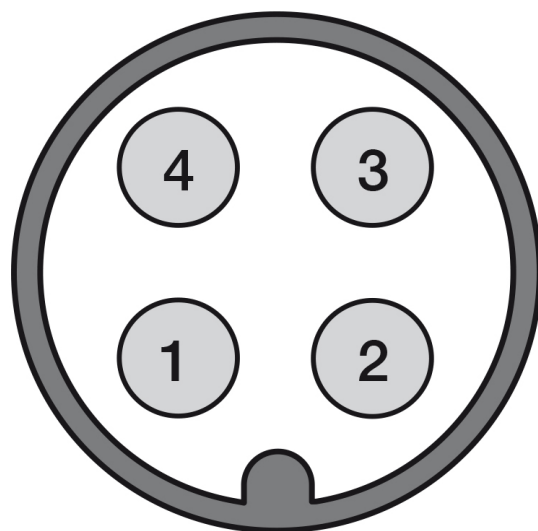
|                       |                 |
|-----------------------|-----------------|
| Dimensions            | 53x38x20mm      |
| Operating Temperature | - 20°C...+ 70°C |
| Mechanical Protection | IP67            |

# CONNECTIONS

Eletrical diagram

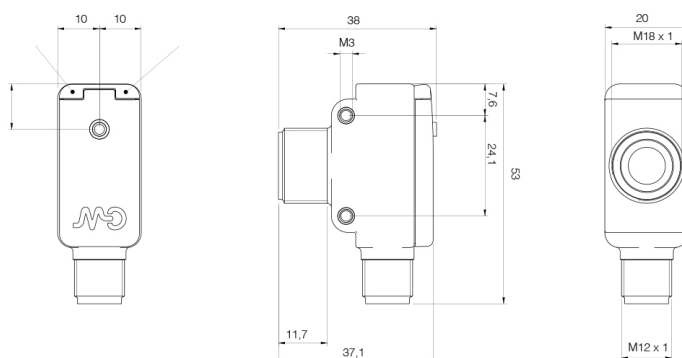


Connector

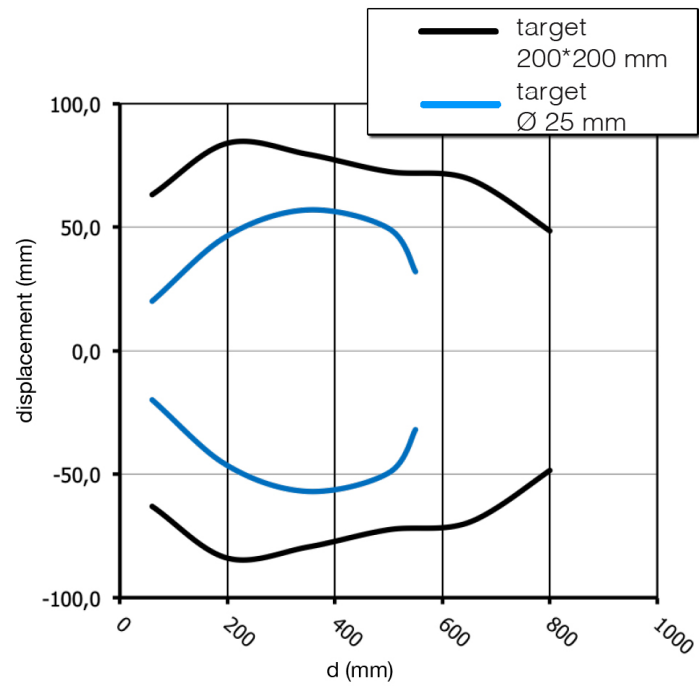


## OTHERS

### Dimensions



### Response curves



## Datasensing S.r.l.

Strada S.Caterina, 235  
41122 Modena (MO)  
Tel. 059 420411  
Fax 059 253973  
E-mail  
info@datasensing.com

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