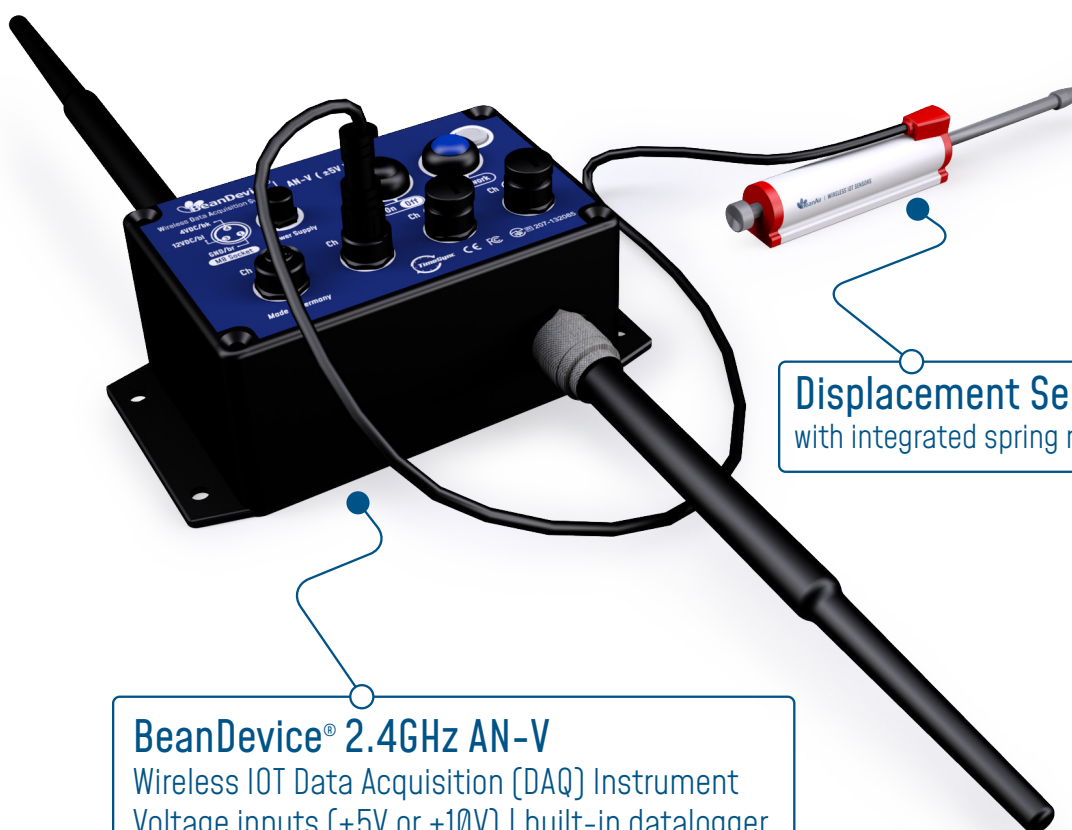


## Displacement Sensor

Displacement Sensor with integrated spring return  
compatible with BeanDevice® 2.4GHz AN-V



- Measurement range 10 - 100 mm
- Long mechanical life
- Excellent repeatability <0.01 mm



**Displacement Sensor**  
with integrated spring return

**BeanDevice® 2.4GHz AN-V**

Wireless IOT Data Acquisition (DAQ) Instrument  
Voltage inputs ( $\pm 5V$  or  $\pm 10V$ ) | built-in datalogger

## Displacement Sensor

### TECHNICAL SPECIFICATIONS

#### PRODUCT REFERENCE

**DISP-SENS-SR-MS-YY-CL-XX**

**MS-YY** - Measurement stroke

10mm, 25mm, 50mm, 75mm and 100 mm

**CL-XX** - SENSOR CABLE LENGTH

from 1m to 20 meters

Example: DISP-SENS-SR-MS-50MM-CL-10M

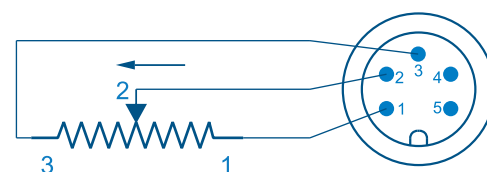
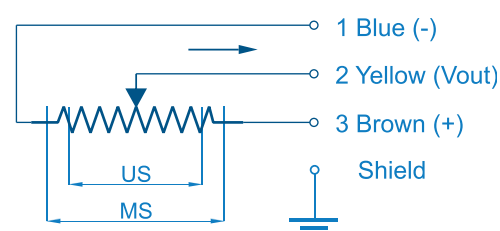
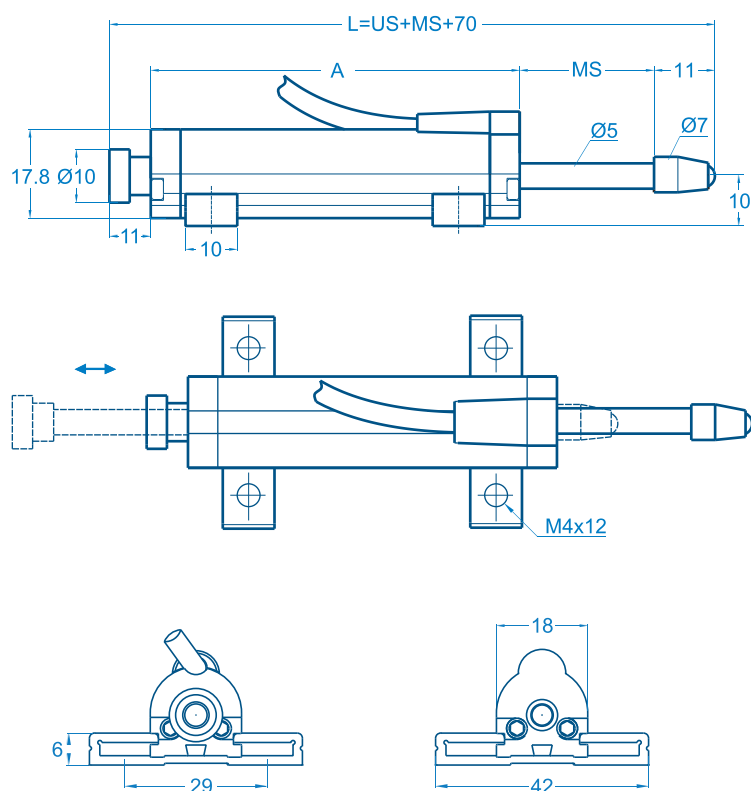
Displacement sensor with spring return, Measurement stroke 50mm, Cable length 10 meters

#### DISPLACEMENT SENSOR SPECIFICATIONS

|                          |                                                                                                                                                 |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Sensor technology        | Linear potentiometer with spring return                                                                                                         |
| Measurement stroke       | 10mm to 100mm                                                                                                                                   |
| Linearity                | ±0.2% ( 75-100 mm) , ±0.5% (< 75mm)                                                                                                             |
| Repeatability            | < 0.01mm                                                                                                                                        |
| Resolution               | related to Beandevise® AN-V precision, 0.01%                                                                                                    |
| Resistance               | 2 kOhm: 10....50mm<br>5 kOhm : 75....100mm                                                                                                      |
| Max Voltage              | 28VDC . Can be directly powered from BeanDevice® AN-V, recommended power voltage 5VDC ( BeanDevice® AN-V ±5V) or 10VDC ( BeanDevice® AN-V ±10V) |
| Displacement speed       | < 5m/s                                                                                                                                          |
| Mechanical Life          | 100 millions movements                                                                                                                          |
| Casing dimensions        | 18 mm of diameter                                                                                                                               |
| Casing material          | Anodized Aluminum                                                                                                                               |
| Rod material             | stainless steel                                                                                                                                 |
| Rod diameter             | 5 mm of diameter                                                                                                                                |
| Mechanical mounting      | Variable brackets                                                                                                                               |
| Waterproofness           | IP66                                                                                                                                            |
| Operating Temperature    | -20°C to +80°C                                                                                                                                  |
| Connection Plug          | M12-4pins Plug Waterproof IP67                                                                                                                  |
| Beandevise Compatibility | compatible with BeanDevice® 2.4GHz AN-V ±5V and ±10V                                                                                            |

## Displacement Sensor

## DRAWING



|                       |    |     |     |     |     |
|-----------------------|----|-----|-----|-----|-----|
| DISP-SENS [mm]        | 10 | 25  | 50  | 75  | 100 |
| US [Usefull Stroke]   | 10 | 25  | 50  | 75  | 100 |
| MS [Mecanical Stroke] | 13 | 28  | 53  | 78  | 103 |
| L [total Length]      | 93 | 123 | 179 | 235 | 288 |

| A                     |     |
|-----------------------|-----|
| DISP-SENS-SR-MS-10MM  | 58  |
| DISP-SENS-SR-MS-25MM  | 73  |
| DISP-SENS-SR-MS-50MM  | 104 |
| DISP-SENS-SR-MS-75MM  | 135 |
| DISP-SENS-SR-MS-100MM | 163 |

## Displacement Sensor

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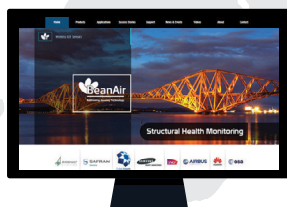
[www.temperature-screening.com](http://www.temperature-screening.com)



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