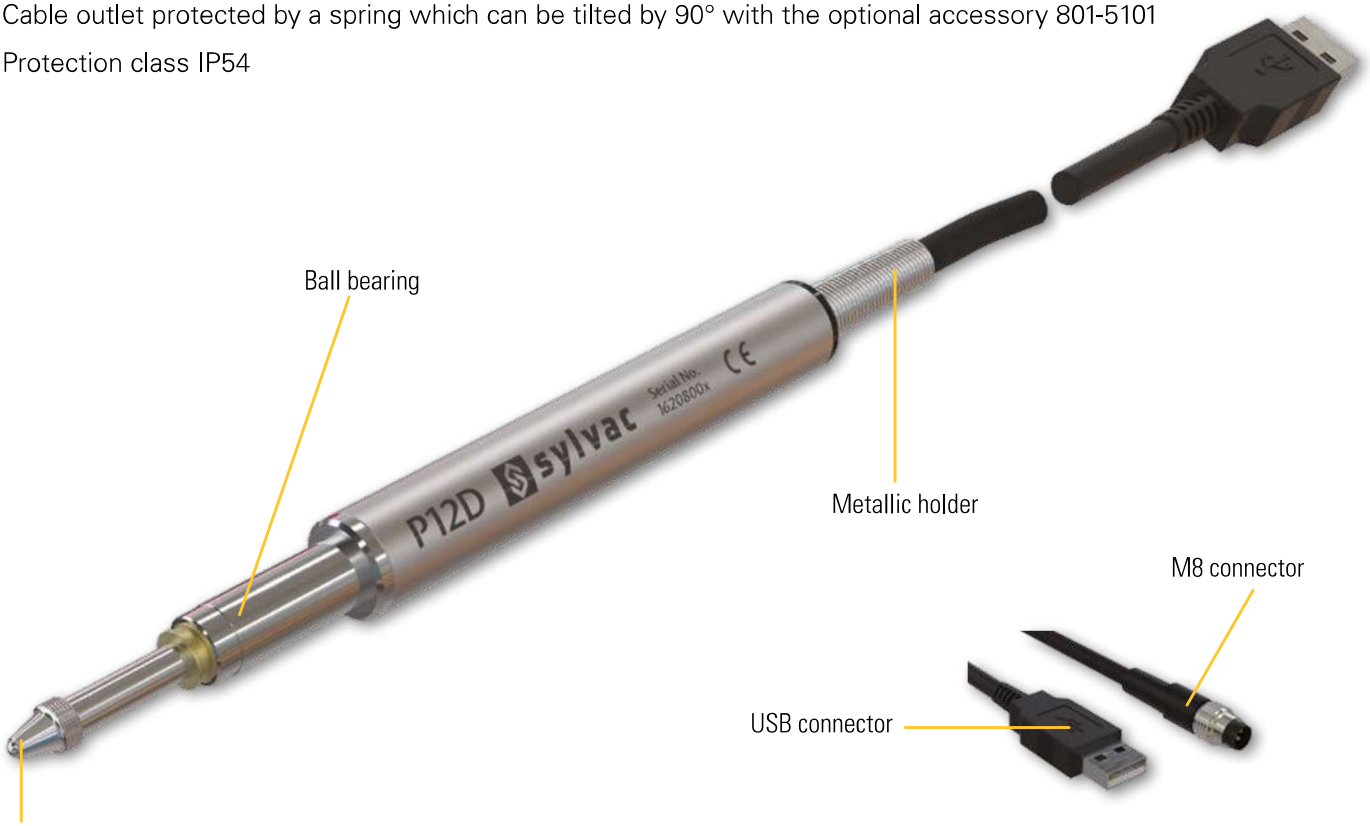
# Absolute digital measuring probes P12D

## DESCRIPTION

- High-precision measuring probes with patented measuring system combining inductive and capacitive technologies
- Absolute system with integrated electronic error correction (no more pairing with the unit or computer) guaranteeing high accuracy over the entire measuring range
- Extremely robust ball bearing guide guarantees a minimum of 100 million cycles (30 millions with radial load)
- Stainless steel body Ø 12 mm, fixing diameter 8 h6
- Measuring range 12.7 mm
- Available in 3 versions: Standard, Work and Pro
- Measuring force selectable: low or very low for vertical use only
- Output signal in direct digital format without the need for a converter
- Reading speed up to 100 values per second depending on configuration
- Straight cable length 2m with either USB or M8 connector
- Cable outlet protected by a spring which can be tilted by 90° with the optional accessory 801-5101
- Protection class IP54




Measuring anvil
Interchangeable contact point M2.5, stainless steel with TC ball

Direct output on PC displayed on Sylcom (software and PC not included)

SWISS MADE

IP54

H

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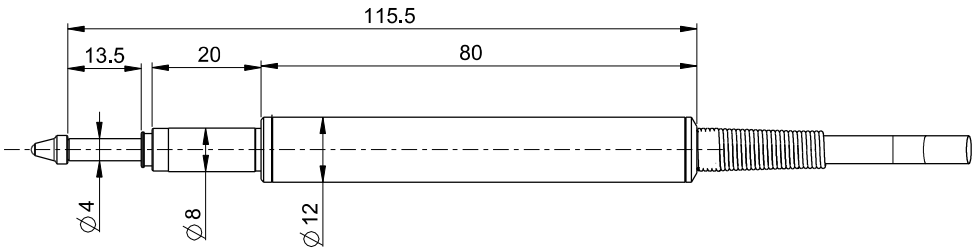
## DIMENSIONAL DRAWINGS




## TECHNICAL SPECIFICATIONS

| **PRO** | | **801-1012** | **801-1018** | **801-1212** | **801-1218** |
|---|---|---|---|---|---|
| Resolution type | | High resolution | | | |
| Type | | P12D HR USB | P12D HR USB CF [2] | P12D HR M8 | P12D HR M8 CF [2] |
| Force [1] | N | 0.2 - 0.3 | 0.08 | 0.2 - 0.3 | 0.08 |
| Measuring range | mm | 12.7 | | | |
| Resolution | µm | 0.01 | | | |
| Max. Error | µm | 0.6 | | | |
| Repeatability | µm | 0.08 | | | |
| Nb measures/s | | up to 100/s, according to configuration [5] | | | |
| Output data | | USB | | M8 | |
| Cable output | | Straight | | | |

| **STANDARD** | | **801-2012** | **801-2017** | **801-2212** |
|---|---|---|---|---|
| Resolution type | | Standard | | |
| Type | | P12D USB | P12D USB LF [3] | P12D M8 |
| Force [1] | N | 0.4 - 0.8 | 0.2 - 0.3 | 0.4 - 0.8 |
| Measuring range | mm | 12.7 | | |
| Resolution | µm | 0.1 | | |
| Max. Error | µm | 1 | | |
| Repeatability | µm | 0.2 | | |
| Nb measures/s | | up to 100/s, according to configuration [5] | | |
| Output data | | USB | | M8 |
| Cable output | | Straight | | |

[1] ± 20%, vertical position
[2] CF = constant force : usable only vertically, rod pointing downwards (without spring)
[3] LF = low force
[4] depends on resolution and software
[5] depends on resolution and number of probes per bus