

MESSKO® BeTech TEMPERATURE INDICATORS ORDERING SPECIFICATIONS.



MESSKO INSTRUMENTS

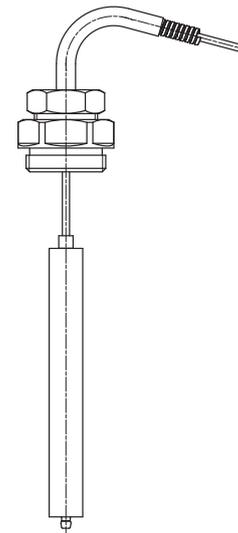
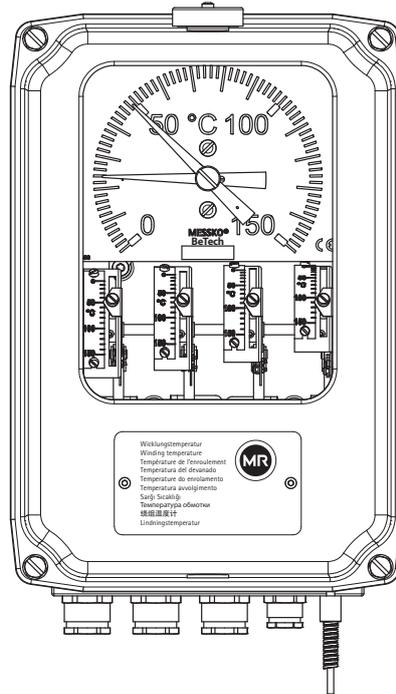
Project/Reference: _____

| Type of instrument | |
|--------------------------|--|
| <input type="checkbox"/> | Oil temperature indicator |
| <input type="checkbox"/> | Winding temperature indicator with matching resistance MRB110-1 (CTmax = 2.2 A) |
| <input type="checkbox"/> | Winding temperature indicator with matching resistance MRB110-2 (CTmax = 2.65 A) |
| <input type="checkbox"/> | Winding temperature indicator without matching resistance (CTmax = 2.3 A) |

| Measuring range | |
|--------------------------|--|
| <input type="checkbox"/> | 0 ... +150 °C |
| <input type="checkbox"/> | -20 ... +130 °C |
| <input type="checkbox"/> | 0 ... +160 °C |
| <input type="checkbox"/> | -40 ... +160 °C |
| <input type="checkbox"/> | High accuracy range (otherwise standard) |
| Other on request | |

| Bulb type | | |
|--------------------------|------------------------------|--------|
| <input type="checkbox"/> | Square flange 4 holes | no. 1 |
| <input type="checkbox"/> | G3/4"B (=BSP3/4") | no. 2 |
| <input type="checkbox"/> | G3/4"B Female thread | no. 2F |
| <input type="checkbox"/> | G1"B (=BSP1) | no. 5 |
| <input type="checkbox"/> | 7/8" - 14UNF, bulb Ø 12.2 mm | no. 6 |
| <input type="checkbox"/> | G3/4"B (=BSP3/4) | no. 8 |
| <input type="checkbox"/> | G1"B, bulb Ø 12 mm | no. 9 |
| <input type="checkbox"/> | G3/4", bulb Ø 12 mm | no. 10 |
| <input type="checkbox"/> | M22 x 1.5 mm | no. 22 |
| <input type="checkbox"/> | M27 x 2 mm | no. 27 |

| Analog output | |
|--------------------------|-----------------------|
| <input type="checkbox"/> | 4 - 20 mA |
| <input type="checkbox"/> | 4 - 20 mA and 0 - 5 V |
| <input type="checkbox"/> | 0 - 5 V |
| <input type="checkbox"/> | Pt100 |
| <input type="checkbox"/> | No analog output |
| Other on request | |



| Color | |
|--------------------------|---------------------------------------|
| <input type="checkbox"/> | RAL 7033 (standard) |
| <input type="checkbox"/> | RAL 7038 (similar ANSI 70 light grey) |
| <input type="checkbox"/> | RAL 7033 Offshore |
| Other colors on request | |

| Length of capillary tube | |
|--------------------------|--------------------------|
| <input type="checkbox"/> | 4 m capillary tube |
| <input type="checkbox"/> | 6 m capillary tube |
| <input type="checkbox"/> | 8 m capillary tube |
| <input type="checkbox"/> | 10 m capillary tube |
| <input type="checkbox"/> | 12 m capillary tube |
| <input type="checkbox"/> | 2 to 20 m capillary tube |

| Color inscription | |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | Black text on white instrument dial |
| <input type="checkbox"/> | White text on black instrument dial |
| Other on request | |

| Microswitches | |
|--------------------------|---|
| <input type="checkbox"/> | 2 Microswitches |
| <input type="checkbox"/> | 3 Microswitches |
| <input type="checkbox"/> | 4 Microswitches |
| <input type="checkbox"/> | 5 Microswitches |
| <input type="checkbox"/> | MBO microswitches (otherwise stand. type) |
| Other on request | |

| Cable gland | |
|------------------------------|----------------|
| <input type="checkbox"/> | M20 x 1.5 |
| <input type="checkbox"/> | Pg16 converter |
| Other connections on request | |

| Window | |
|--------------------------|---|
| <input type="checkbox"/> | Laminated safety glass (standard) |
| <input type="checkbox"/> | UV-stabilized poly carbonate (optional) |

| Housing | |
|--------------------------|------------------------------|
| <input type="checkbox"/> | IP55: Standard mounting |
| <input type="checkbox"/> | IP65: Standard mounting |
| <input type="checkbox"/> | IP55: Seismic style mounting |
| <input type="checkbox"/> | IP65: Seismic style mounting |
| <input type="checkbox"/> | IP55: Polar execution |
| <input type="checkbox"/> | IP65: Polar execution |
| Other on request | |

Please enclose this order form filled in the order.

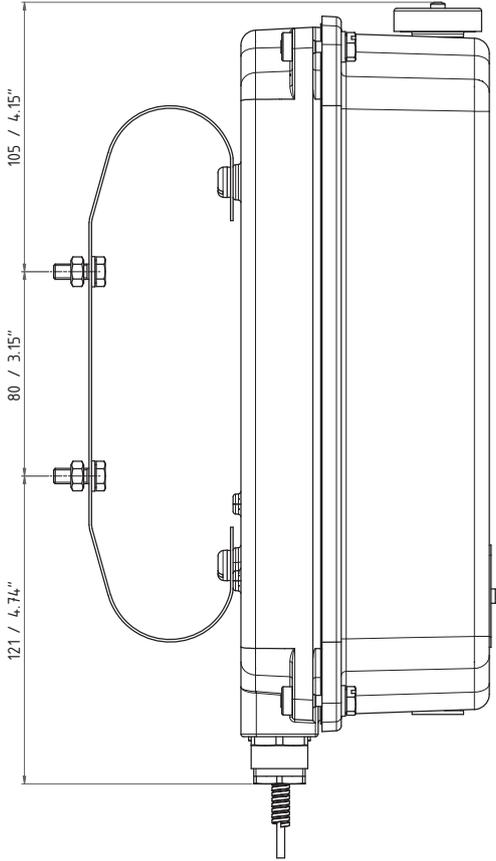
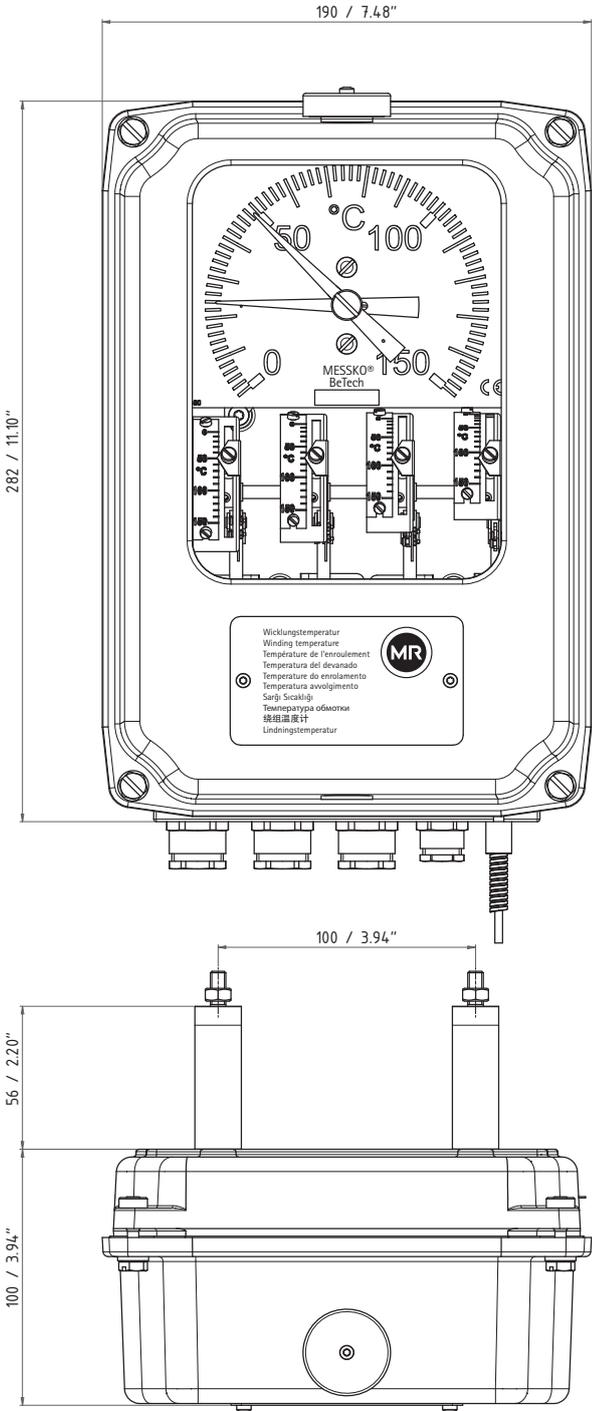
TECHNICAL DATA

MESSKO® BeTech.

| MESSKO® BeTech | Technical data |
|---|---|
| Materials | |
| Housing | Die casted aluminium, polyester powder coated, RAL7033 (RAL7038 optional) |
| Viewing glass | Laminated safety glass as a standard (optional: UV stabilized polycarbonate) |
| Thread joint | Square flange 4 holes; G $\frac{3}{4}$ "; G1"; $\frac{7}{8}$ "-14UNF; other thread joints on request |
| Cable gland | Up to 3 x M20 and 1 x M16 or 3 x PG16 adaptor |
| Characteristic data | |
| Measuring range | 0 ... 150 °C or -20 ... 130 °C or 0 ... 160 °C or -40 ... 160 °C; other ranges on request |
| Indication accuracy | ± 3 °C (30-150 °C) (optional: ± 2 °C or 1.5 °C) |
| Place of installation | Indoors and outdoors, tropical and arctic climates |
| Ambient temperature | -40 ... +70 °C (optional: polar execution down to -60 °C) |
| Insulation voltage | 2.5 kV 50 Hz 1 min |
| Protection class | IP 55 in acc. with EN60529 (optional: IP 65) |
| Analog output | 4-20 mA; 4-20 mA and 5 V DC; 0-5 V DC; Pt100 |
| Weight | Approx. 4 kg |
| Micro-switches | |
| Number | 2, 3, 4 or 5 |
| Switch rating | Standard SPDT 250 V AC / 15 A; (optional: MBO SPDT 250 V AC / 10 A or 250 V DC / 5 A, DPDT or gold plated SPDT) |
| Switch hysteresis | 12 \pm 2 °C; others on request |
| Built-in matching resistance | |
| Winding temperature indicator with MRB110-1 | For CTmax 2.2 A cont.; setting range 0 - 80% of input current |
| Winding temperature indicator with MRB110-2 | For CTmax 2.65 A cont.; setting range 45 - 85% of input current |

DIMENSIONS

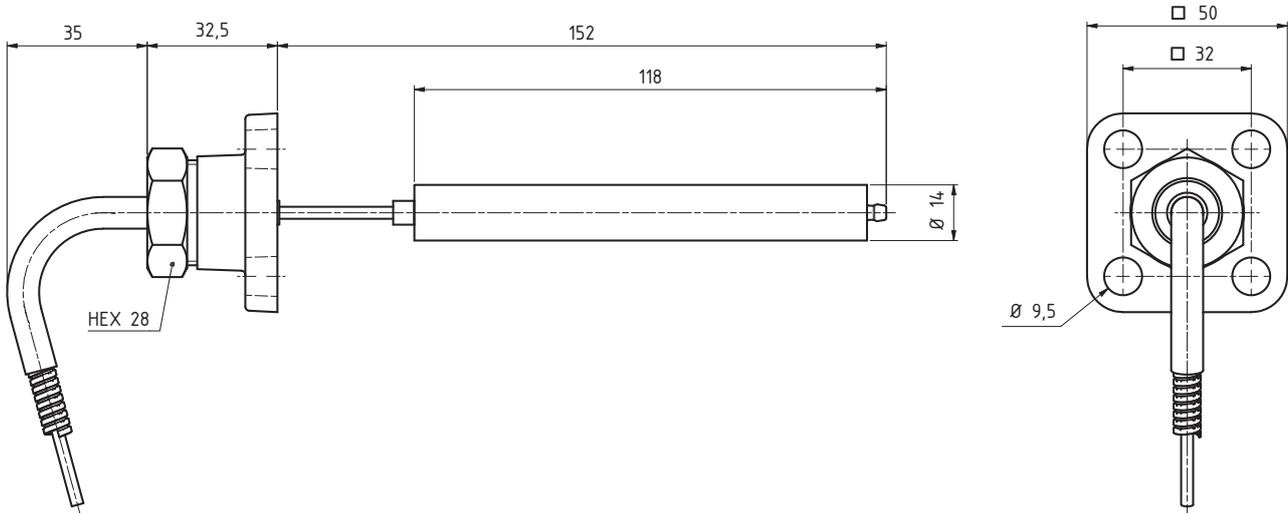
MESSKO® BeTech - THERMOMETER.



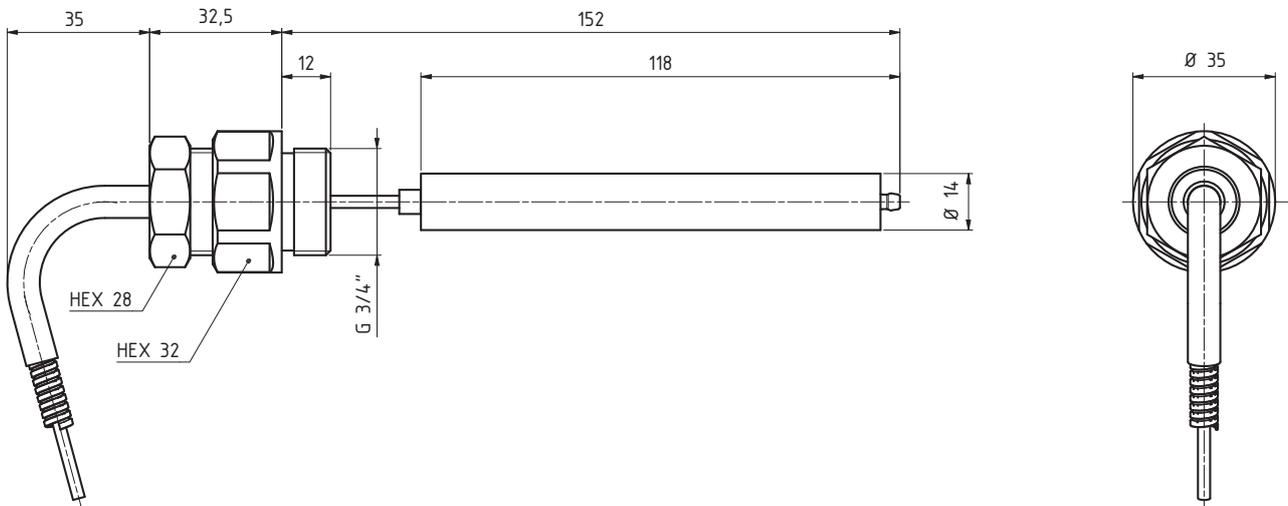
DIMENSIONS BULBS

MESSKO® BeTech - THERMOMETER.

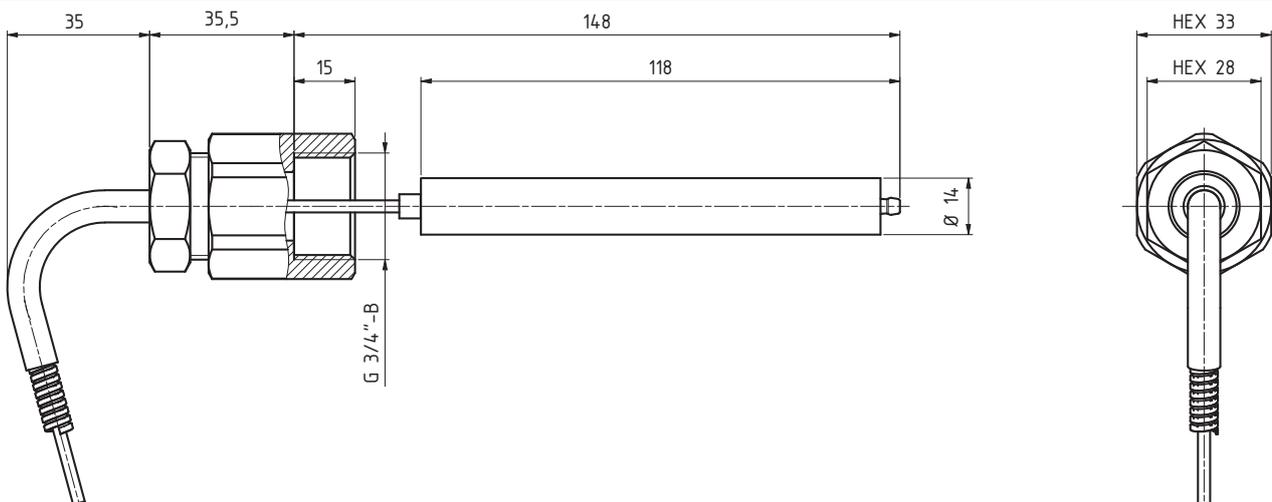
MESSKO® BeTech bulb no. 1



MESSKO® BeTech bulb no. 2



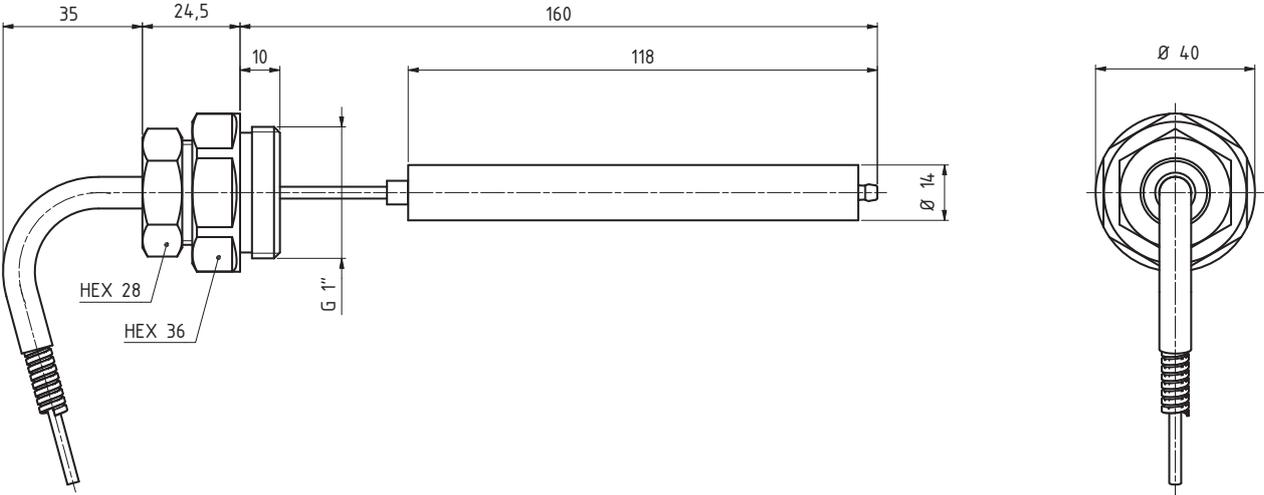
MESSKO® BeTech bulb no. 2F



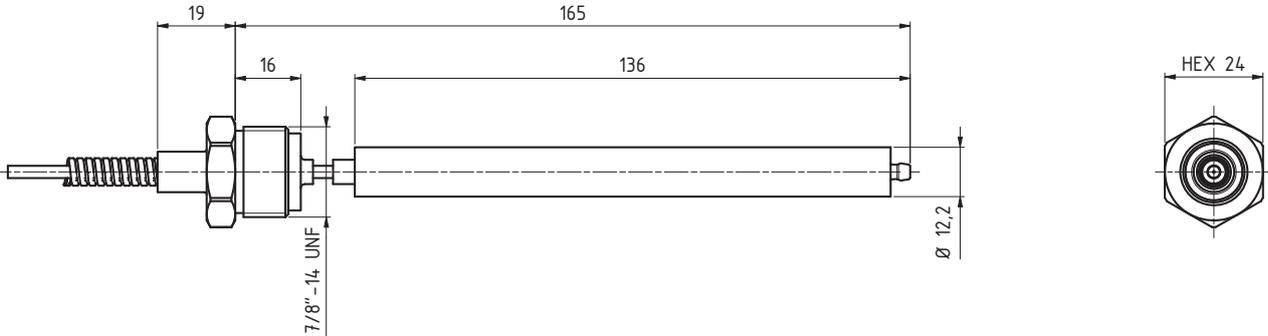
DIMENSIONS BULBS

MESSKO® BeTech - THERMOMETER.

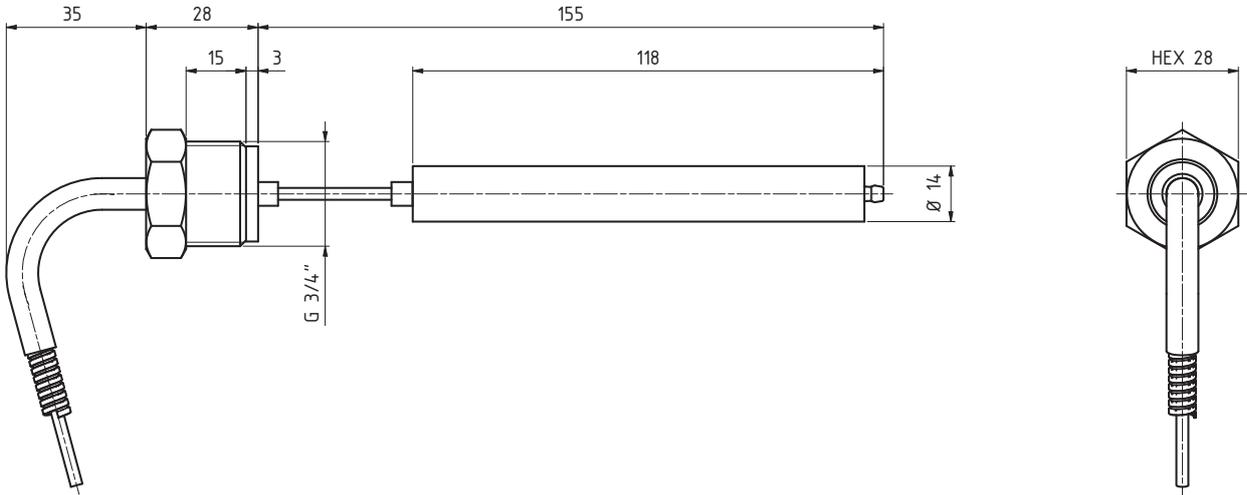
MESSKO® BeTech bulb no. 5



MESSKO® BeTech bulb no. 6



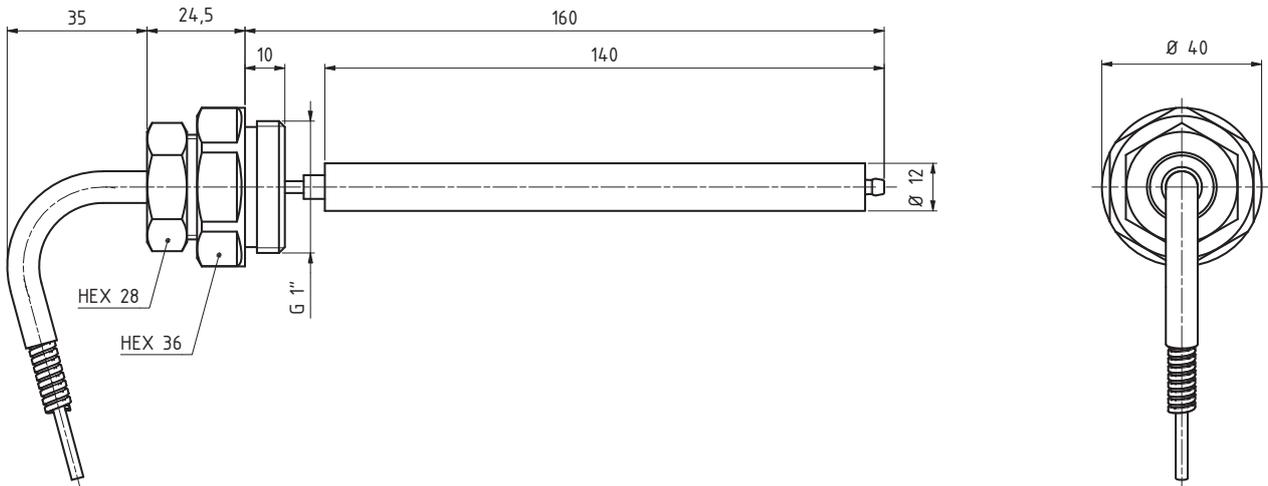
MESSKO® BeTech bulb no. 8



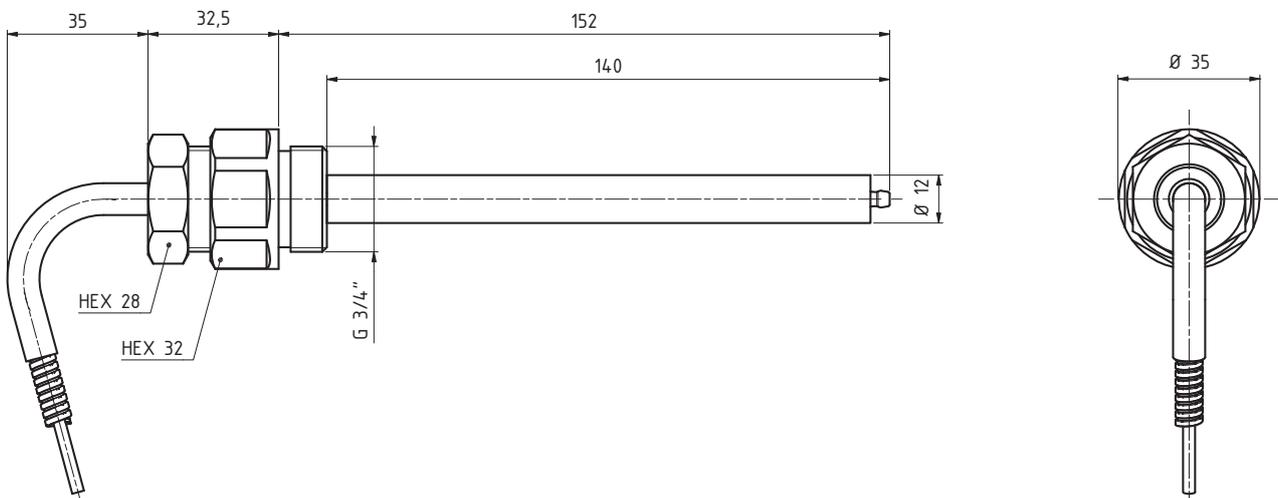
DIMENSIONS BULBS

MESSKO® BeTech - THERMOMETER.

MESSKO® BeTech bulb no. 9



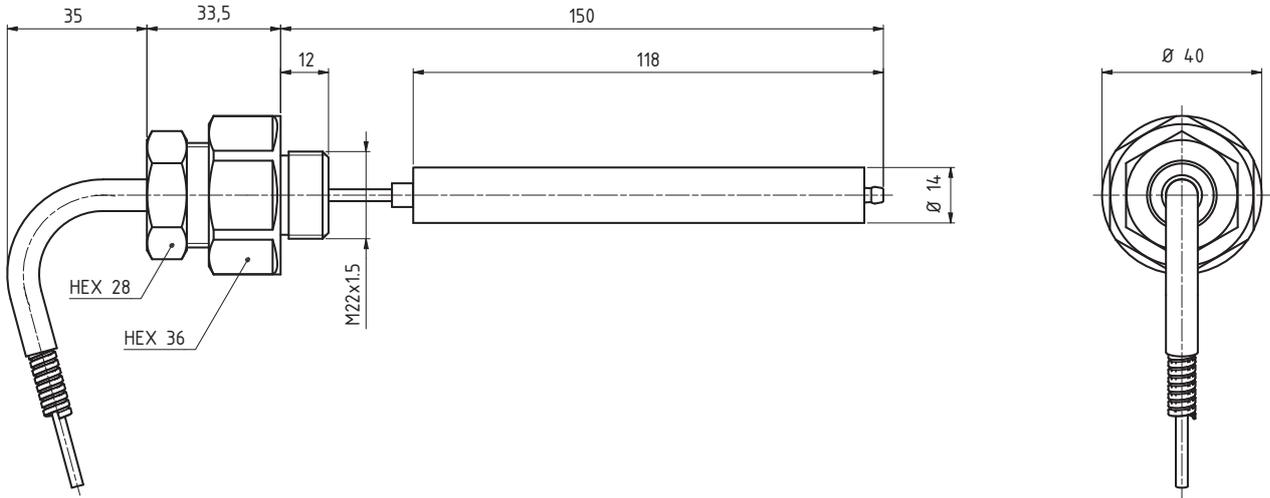
MESSKO® BeTech bulb no. 10



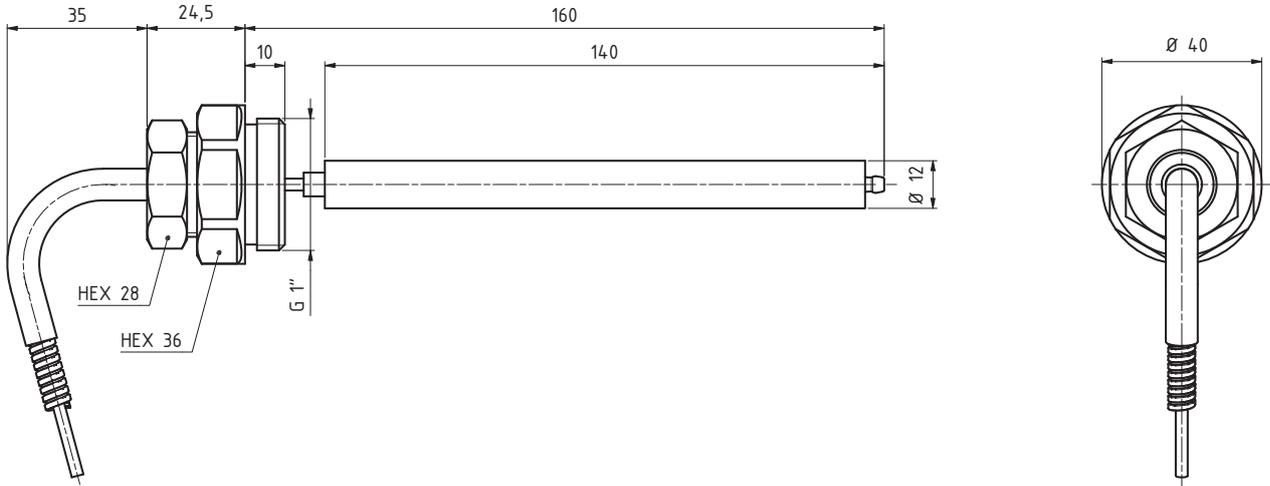
DIMENSIONS BULBS

MESSKO® BeTech - THERMOMETER.

MESSKO® BeTech bulb no. 22



MESSKO® BeTech bulb no. 27



Messko GmbH

Gewerbegebiet An den Drei Hasen
Messko-Platz 1
61440 Oberursel, Germany

Phone: +49 6171 6398 0
Fax: +49 6171 6398 98
Email: info@messko.com

www.messko.com

Please note:

The data in our publications may differ from
the data of the devices delivered. We reserve
the right to make changes without notice.

TD3527173/01 – MESSKO® BeTech –
79151701 – 04/14 – ©Messko GmbH 2014

THE POWER BEHIND POWER.

