Resistance thermometers WTh 30



Benefits

- Hygienic design as per EHEDG recommendations
- Compact design
- High accuracy
- Short response time
- Various process connections
- Transducer can be integrated

Application

For temperature measurement in tanks and pipelines and applications requiring hygienic process connections, materials and processing. Specially suitable for food, pharmaceutical and biotechnology applications due to the compact design and the high accuracy.

Description

WTh 30 consists of a sturdy stainless steel housing with diverse process connections and a Pt 100 measuring insert which is directly integrated in a thermowell. The change in resistance depending on the measured temperature is directly available as a signal or can be detected by a transducer and converted into a 4–20 mA output signal. The instrument is connected by means of a compact M12 plug connection.

Technical specifications

Sensor 1 x Pt100 4-wire Class A, IEC 751

Thermowell Ø 6 mm Stainless steel 316 L

Process connection G½B Clamp ISO 2852 G½B conical metal seal Grooved union nut DIN 11851 VARIVENT® type N Stainless steel 316 L

Installation length 30, 35, 50, 100, 150, 200 mm

Electrical connection Connector M12 Connector housing: Stainless steel HousingMaterial:Stainless steelDiameter:18 mm

Degree of protection IP 67 (EN 60529)

Surface roughnessRa:< 0.8 μm</td>Welding seam:< 1.6 μm</td>

Operating pressure Max. 16 bar or max. 10 bar

Measuring range -50/+200 °C

Response time t₀₀ 5.5 s as per EN 60751, test in flowing water (without transducer)



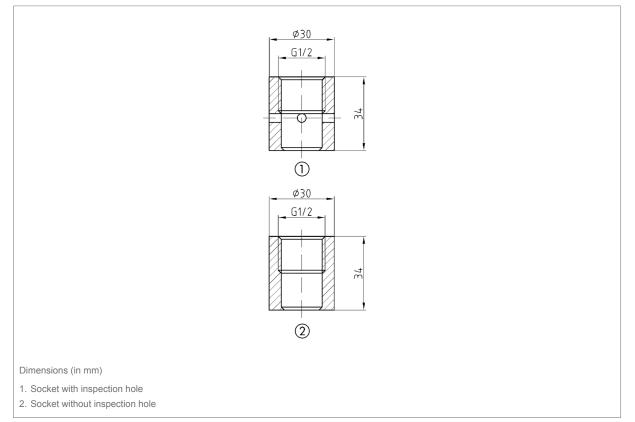


Options

- Integrated transducer
- Other process connections
- Electropolishing
- Replaceable measuring insert
- Other installation lengths
- Weld-in sockets

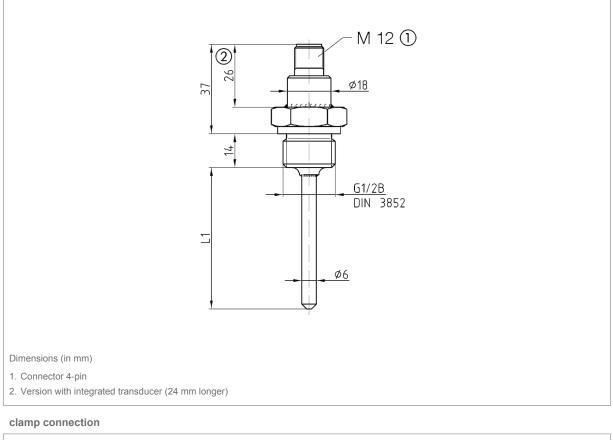
Detail views

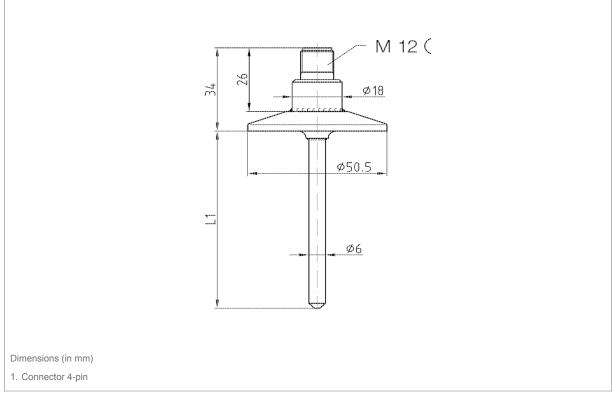
Weld-in socket





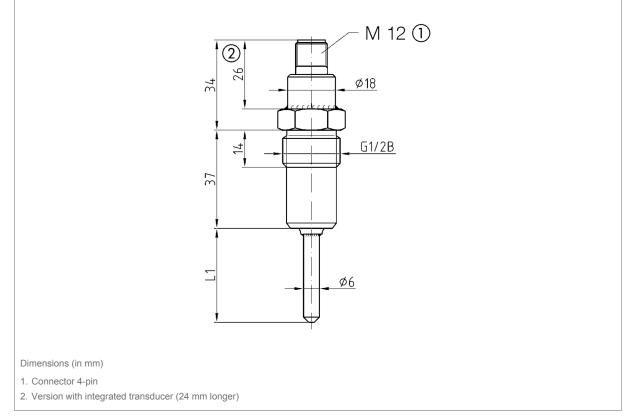
Connection G¹/₂B



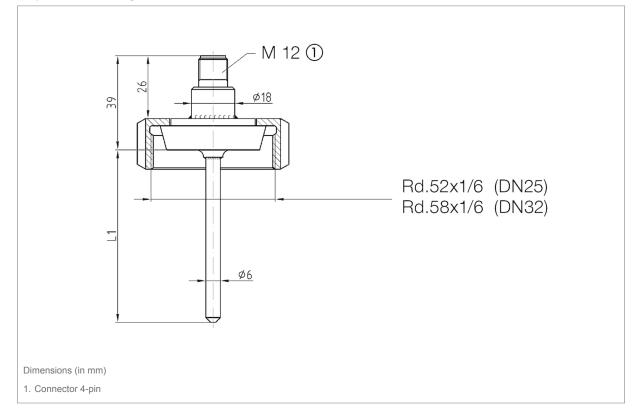




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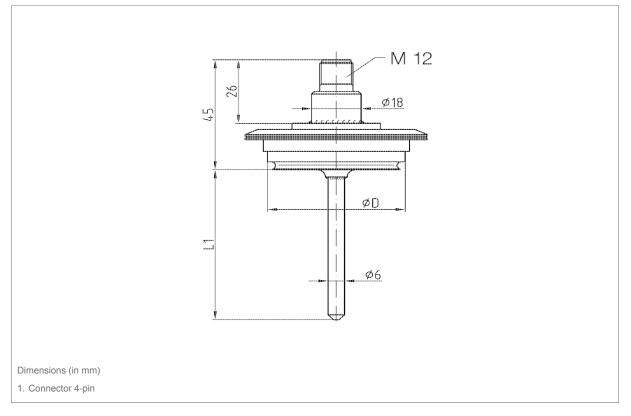
Tapered socket with grooved union nut DIN 11851





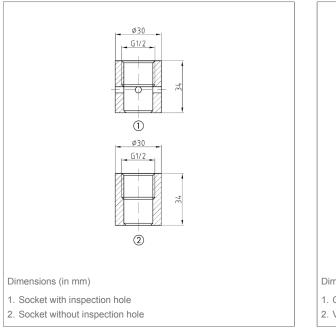
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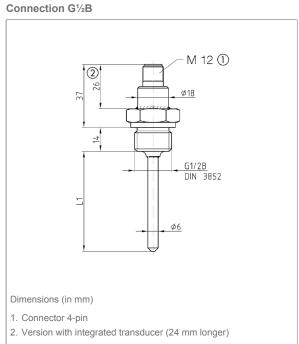
VARIVENT® connection



Technical drawings

Weld-in socket

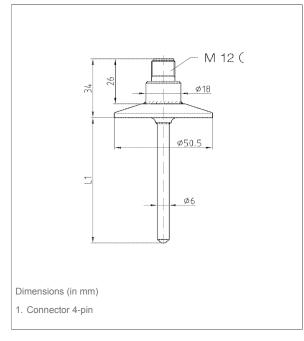




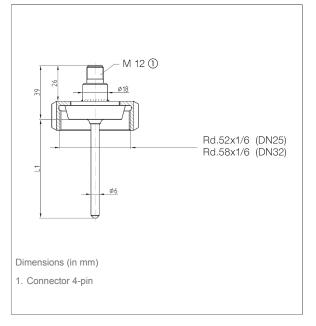


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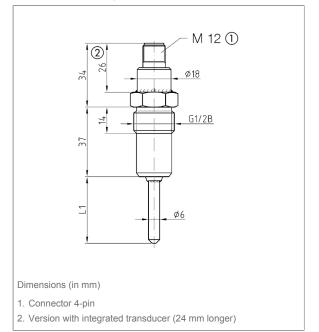
clamp connection



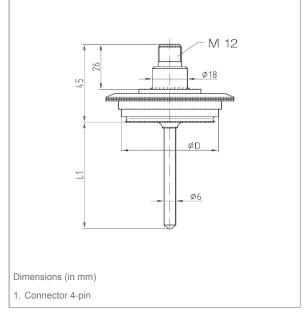
Tapered socket with grooved union nut DIN 11851



connection G¹/₂B, tapered, metallic seal



VARIVENT® connection







Versions

		Installation length	Part no.
	Resistance thermometers WTh 30	30 mm	32302
	Resistance thermometers WTh 30	35 mm	32303
	Resistance thermometers WTh 30	50 mm	32304
	Resistance thermometers WTh 30	100 mm	32305
	Resistance thermometers WTh 30	150 mm	32306
	Resistance thermometers WTh 30	200 mm	32307
	Resistance thermometers WTh 30 CP	30 mm	32326
	Resistance thermometers WTh 30 CP	35 mm	32327
4	Resistance thermometers WTh 30 CP	50 mm	32328
Į	Resistance thermometers WTh 30 CP	100 mm	32329
	Resistance thermometers WTh 30 CP	150 mm	32330
	Resistance thermometers WTh 30 CP	200 mm	32331
	Resistance thermometers WTh 30 DK	30 mm	32310
_	Resistance thermometers WTh 30 DK	35 mm	32311
윰	Resistance thermometers WTh 30 DK	50 mm	32312
Ţ	Resistance thermometers WTh 30 DK	100 mm	32313
	Resistance thermometers WTh 30 DK	150 mm	32314
	Resistance thermometers WTh 30 DK	200 mm	32315
	Resistance thermometers WTh 30 MR	30 mm	32318
Ť	Resistance thermometers WTh 30 MR	35 mm	32319
	Resistance thermometers WTh 30 MR	50 mm	32320
	Resistance thermometers WTh 30 MR	100 mm	32321
	Resistance thermometers WTh 30 MR	150 mm	32322
	Resistance thermometers WTh 30 MR	200 mm	32323
		Blue pr	art no = in-stock items

Blue part no. = in-stock items



		Installation length	Part no.
	Resistance thermometers WTh 30 VT	30 mm	32334
	Resistance thermometers WTh 30 VT	35 mm	32335
	Resistance thermometers WTh 30 VT	50 mm	32336
	Resistance thermometers WTh 30 VT	100 mm	32337
	Resistance thermometers WTh 30 VT	150 mm	32338
	Resistance thermometers WTh 30 VT	200 mm	32339

Blue part no. = in-stock items

