

TS 440 and TS 444

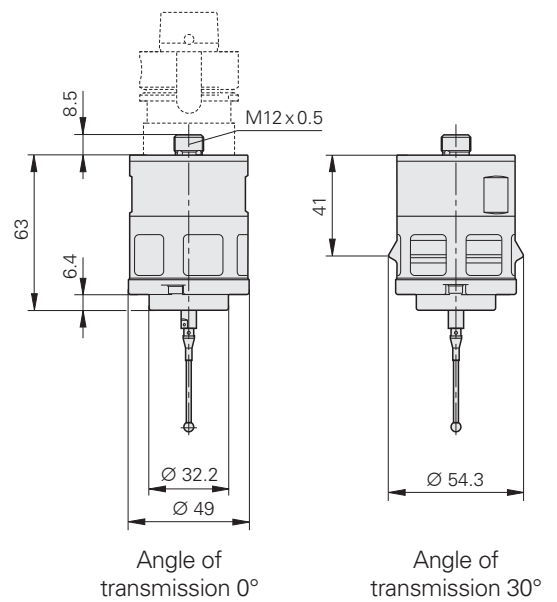
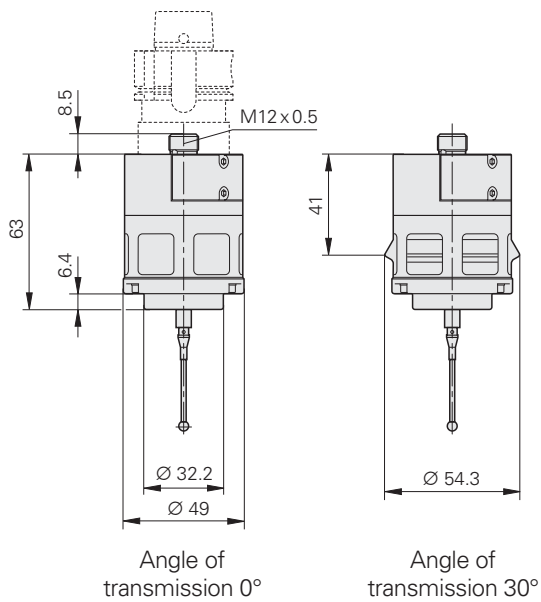
Workpiece Touch Probes with Infrared Transmission



TS 440



TS 444



mm

 Tolerancing ISO 8015
 ISO 2768 - m H
 < 6 mm: ±0.2 mm

Workpiece touch probe	TS 440	TS 444
Probe accuracy	≤ ± 5 µm when using a standard stylus	
Probe repeatability Repeated probing from one direction	2 σ ≤ 1 µm at a probing velocity of 1 m/min <i>Typical values:</i> 2 σ ≤ 1 µm at a probing velocity of 3 m/min 2 σ ≤ 4 µm at a probing velocity of 5 m/min	
Deflection of probe contact	≤ 5 mm in all directions (with stylus length L = 40 mm)	
Deflection force	Axial: Approx. 7 N Radial: 0.7 to 1.3 N	
Probe velocity	≤ 5 m/min	
Protection EN 60529	IP 67	
Operating temperature	10 °C to 40 °C	
Storage temperature	-20 °C to +70 °C	
Weight without taper shank	Approx. 0.4 kg	
Taper shank*	<ul style="list-style-type: none"> • With taper shank* (overview on page 18) • W/o taper shank (connecting thread M12 x 0.5) 	
Signal transmission	Infrared transmission with 360° range	
Transmission angle of infrared signal*	0° or +30°	
Transmitter/receiver unit*	SE 540 or SE 640	
Switching the TS on/off	Infrared signal from SE	–
Power supply:	Batteries, rechargeable or nonrechargeable	Compressed air Recommended operating pressure 5.5 x 10 ⁵ to 8 x 10 ⁵ Pa
Energy buffer	2 batteries (rechargeable or nonrechargeable), size 2/3 AA or size N ¹⁾ each 1 V to 4 V	Integrated high-power capacitors; charging time typically 3 s at 5.5 x 10 ⁵ Pa
Operating time	Continuous duty typically 200 h with lithium batteries ²⁾ 3.6 V/1 200 mAh	Typically 120 s

* Please select when ordering

¹⁾ Via adapter, included in delivery

²⁾ Included in delivery

10⁵ Pa ≙ 1 bar

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