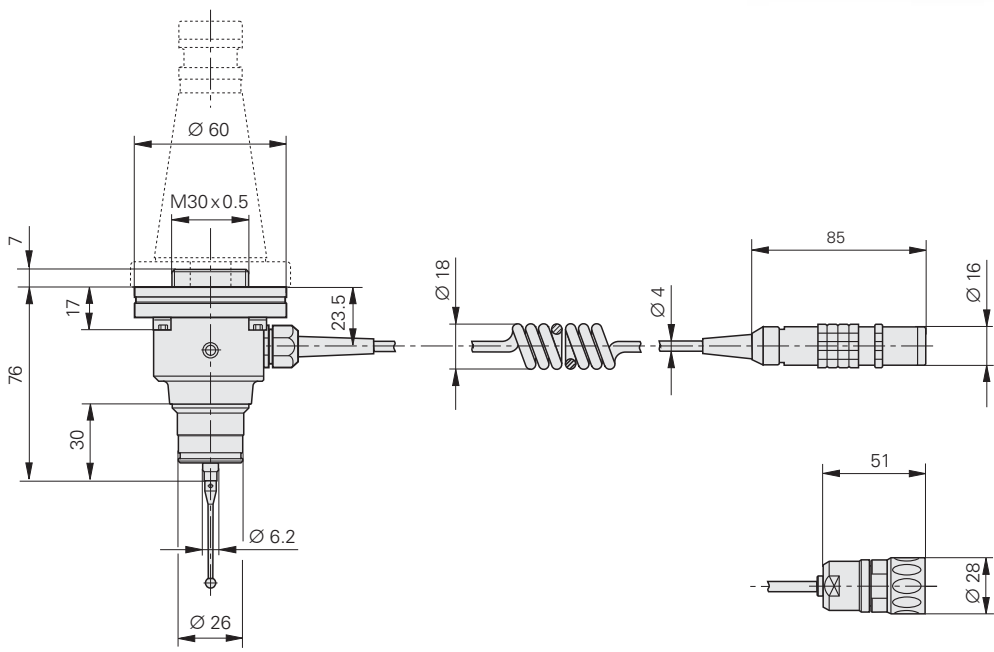


TS 220 and TS 230

Workpiece Touch Probes with Cable Connection



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

Workpiece touch probe	TS 220	TS 230
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. 8 N Radial: approx. 1 N	
Probe velocity	≤ 5 m/min	
Protection EN 60529	IP 55	
Operating temperature	10 °C to 40 °C	
Storage temperature	-20 °C to +70 °C	
Weight without taper shank	Approx. 0.7 kg	
Taper shank*	<ul style="list-style-type: none"> • With taper shank* (overview on page 18) • W/o taper shank (connecting thread M30 x 0.5) 	
Power supply Without load	5 V ± 5% DC / ≤ 100 mA	10 V to 30 V DC / ≤ 100 mA
Output signals	One square-wave signal and its inverted signal Trigger signals S and \bar{S}	
Signal levels	TTL $U_H \geq 2.5 \text{ V}$ at $-I_H \leq 20 \text{ mA}$ $U_L \leq 0.5 \text{ V}$ with $I_L \leq 20 \text{ mA}$ At 5 V rated voltage	HTL $U_H \geq 20 \text{ V}$ at $-I_H \leq 20 \text{ mA}$ $U_L \leq 2.8 \text{ V}$ at $I_L \leq 20 \text{ mA}$ at 24 V rated voltage
Electrical connection	Spiral cable, 1.5 m with 6-pin quick disconnect	Spiral cable 1.5 m with M23 connector (male) 7-pin M23

* Please select when ordering

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