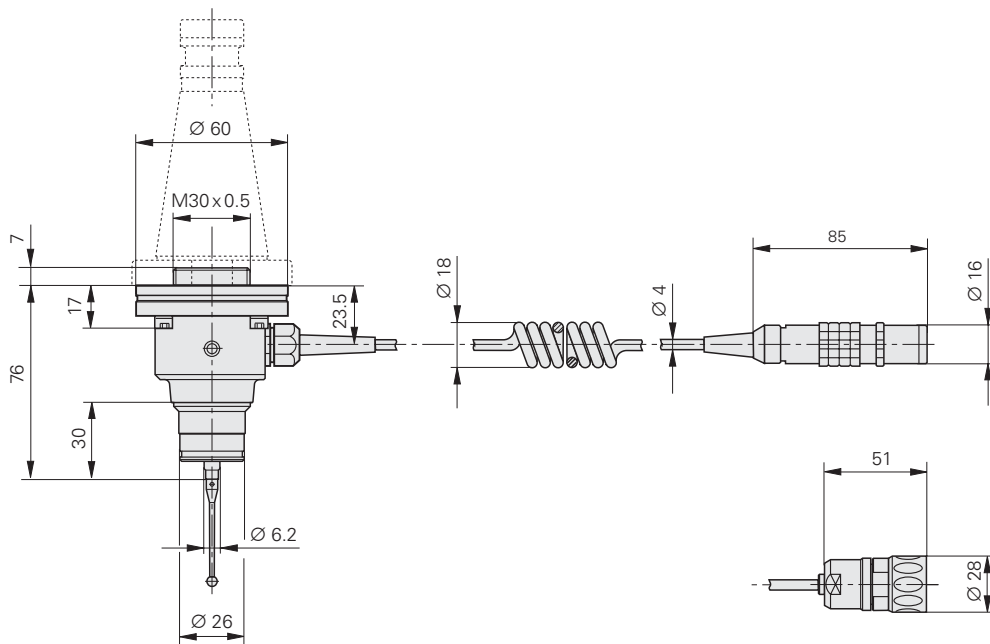


TS 220 and TS 230

Workpiece Touch Probes with Cable Connection



Dimensions in 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	
Max. deflection of probe contact	5 mm in all directions	
Deflection force	Axial: approx. 8 N Radial: approx. 1 N	
Probe velocity	Max. 3 m/min	
Protection IEC 60 529	IP 55	
Operating temperature Storage temperature	10 °C to 40 °C –20 °C to 70 °C	
Weight without taper shank (approx.)	0.7 kg	
Taper shank*	• With taper shank • Without taper shank (connecting thread M30 x 0.5)	
Power supply Without load	5 V ± 5% / ≤ 100 mA	10 to 30 V / ≤ 100 mA
Output signals	One square-wave signal and its inverted signal Trigger signal S and S̄	
Signal levels	TTL U _H ≥ 2.5 V at –I _H ≤ 20 mA U _L ≤ 0.5 V at I _L ≤ 20 mA at 5 V rated voltage	HTL U _H ≥ 20 V at –I _H ≤ 20 mA U _L ≤ 2.8 V at I _L ≤ 20 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