

Specifications	CT 2501 CT 6001	CT 2502 CT 6002
<b>Plunger actuation</b>	By motor	Plunger connected via separate coupling with moving machine part
<b>Measuring standard</b>	DIADUR phase grating on Zerodur® glass ceramic Grating period 4 µm	
<b>System accuracy</b> at 19 to 21 °C	± 0.1 µm without compensation; ± 0.03 µm after linear length error compensation ± 0.05 µm after linear length error compensation	
<b>Recommd. meas. step</b>	0.01 µm/0.005 µm (5 nm) with ND 28x	
<b>Reference mark</b>	Approx. 1.7 mm below upper stop	
<b>Measuring range</b>	CT 2500 25 mm CT 6000 60 mm	
<b>Gauging force</b> Vertically downward Vertically upward Horizontal	1 N/1.25 N/1.75 N – /– /0.75 N – /0.75 N/1.25 N	–
<b>Required moving force</b>	–	0.1 N to 0.6 N (depending on operating attitude)
<b>Radial force</b>	≤ 0.5 N (mechanically permissible)	
<b>Operating attitude</b>	Any required (for preferred operating attitude see page 13)	
<b>Vibration</b> 55 to 2000 Hz <b>Shock</b> 11 ms	≤ 100 m/s <sup>2</sup> (EN 60068-2-6) ≤ 1000 m/s <sup>2</sup> (EN 60068-2-27)	
<b>Protection</b> EN 60529	IP 50	
<b>Operating temperature</b>	10 to 40 °C; ref. temperature 20 °C	
<b>Fastening</b>	CT 2500 Clamping shank Ø16h8 CT 6000 Plane surface	
<b>Weight</b>	CT 2500 520 g without cable CT 6000 700 g	
<b>Incremental signals</b>	~ 11 µA <sub>pp</sub> ; signal period 2 µm	
<b>Measuring velocity</b>	≤ 24 m/min (depending on the subsequent electronics) ≤ 12 m/min with the ND 28x display unit	
<b>Electrical connection*</b>	<ul style="list-style-type: none"> <li>• Cable, 1.5 m, with 15-pin D-sub connector</li> <li>• Cable, 1.5 m, with 9-pin M23 connector</li> </ul> Interface electronics are integrated in connector.	
<b>Cable length</b>	≤ 30 m with HEIDENHAIN cable	
<b>Power supply</b>	5 V ± 5 %/< 180 mA	5 V ± 5 %/< 120 mA

CT 2500



CT 6000



\* Please indicate when ordering