

NCS – Incremental optical scale for CNC applications

- Optical scale with glass measuring support. Resolutions up to 0.1 μm. In the T version resolutions are programmable (**Pr**) via serial line.
- Accuracy grade ± 3 μm. Metrological certificate provided with every scale.
- Linear thermal expansion coefficient $\lambda = 8 \times 10^{-6} \text{ } ^\circ\text{C}^{-1}$.
- Swinging connecting cable output (connector inside the transducer).
- Reference indexes at coded distance or at constant step (40 mm) or selectable.
- High stability and quality of signals even in case of high speed, strong accelerations and vibrations.
- Protected against inversion of power supply polarity and short circuit on output ports.

NCS V20

Sine-wave output

Resolution	up to 0.1 μm
Grating pitch	20 μm
Accuracy	± 3 μm
Max. traversing speed	120 m/min
Measuring length	70 to 3240 mm
Reference indexes	constant step / selectable / coded
Output	sine wave 1 Vpp
Protection class	IP 54 standard - IP 64 pressurized
Electrical protections	inversion of polarity and short circuit



NCS T5

TTL output - Resolution 5 μm **Pr**

Resolution	5 μm
Grating pitch	20 μm
Accuracy	± 3 μm
Max. traversing speed	120 m/min
Measuring length	70 to 3240 mm
Reference indexes	constant step / selectable / coded
Output	LINE DRIVER / PUSH-PULL
Protection class	IP 54 standard - IP 64 pressurized
Electrical protections	inversion of polarity and short circuit

NCS T1

TTL output - Resolution 1 μm **Pr**

Resolution	1 μm
Grating pitch	20 μm
Accuracy	± 3 μm
Max. traversing speed	120 m/min
Measuring length	70 to 3240 mm
Reference indexes	constant step / selectable / coded
Output	LINE DRIVER / PUSH-PULL
Protection class	IP 54 standard - IP 64 pressurized
Electrical protections	inversion of polarity and short circuit



NCS T05-T01

TTL output - Resolution 0.5-0.1 μm **Pr**

	T05	T01
Resolution	0.5 μm	0.1 μm
Grating pitch	20 μm	20 μm
Accuracy	± 3 μm	± 3 μm
Max. traversing speed	120 m/min	45 m/min
Measuring length	70 to 3240 mm	
Reference indexes	constant step / selectable / coded	
Output	LINE DRIVER / PUSH-PULL	
Protection class	IP 54 standard - IP 64 pressurized	
Electrical protections	inversion of polarity and short circuit	

