

REQUIREMENTS ON AN EXPOSED LINEAR ENCODER

- CONTAMINATION RESISTANCE
- IMMUNITY AGAINST AGING AND TEMPERATURE CHANGES
- HIGH PERMISSIBLE TRAVERSING SPEED
- EASY MOUNTING
- SMALL DIMENSIONS
- OPERATING CYCLES
- NO MECHANICAL BACKLASH
- ZERO FRICTIONAL FORCE
- REFERENCE MARKS REPEATABLE FROM BOTH TRAVERSING DIRECTIONS
- TWO SEPARATE SWITCH SIGNALS
- RESOLUTION: 10 μm – 0.05 μm



MS 15 MEETS ALL THESE REQUIREMENTS!

SCANNING PRINCIPLE

The model MS 15 incremental linear encoder system works with the imaging, photoelectric measuring principle and a **singlefield reflective scanning method**.

The regulated light of an infrared LED is collimated by a condenser lens and passes through the grid of the reticle. After being reflected from the scale, the infrared LED generates a periodic intensity distribution on the structured sensor.

The sensor generates high quality sinusoidal signals which are highly insensitive to possible contaminations.

The regulation of the LED ensures a constant signal amplitude, guaranteeing stability in the case of temperature fluctuations as well as with long-run operation.

