



LINEAR OPTICAL READERS SERIES KD

Linear optical readers series KD are accurate and reliable, especially suited for applications in severe industrial environments.

They can be profitably employed on machine tools (CNC, boring machines, planomillers, vertical lathes, punching machines.....) and on operating and automatic machines (eg. bending presses, cutting machines, beading machines).

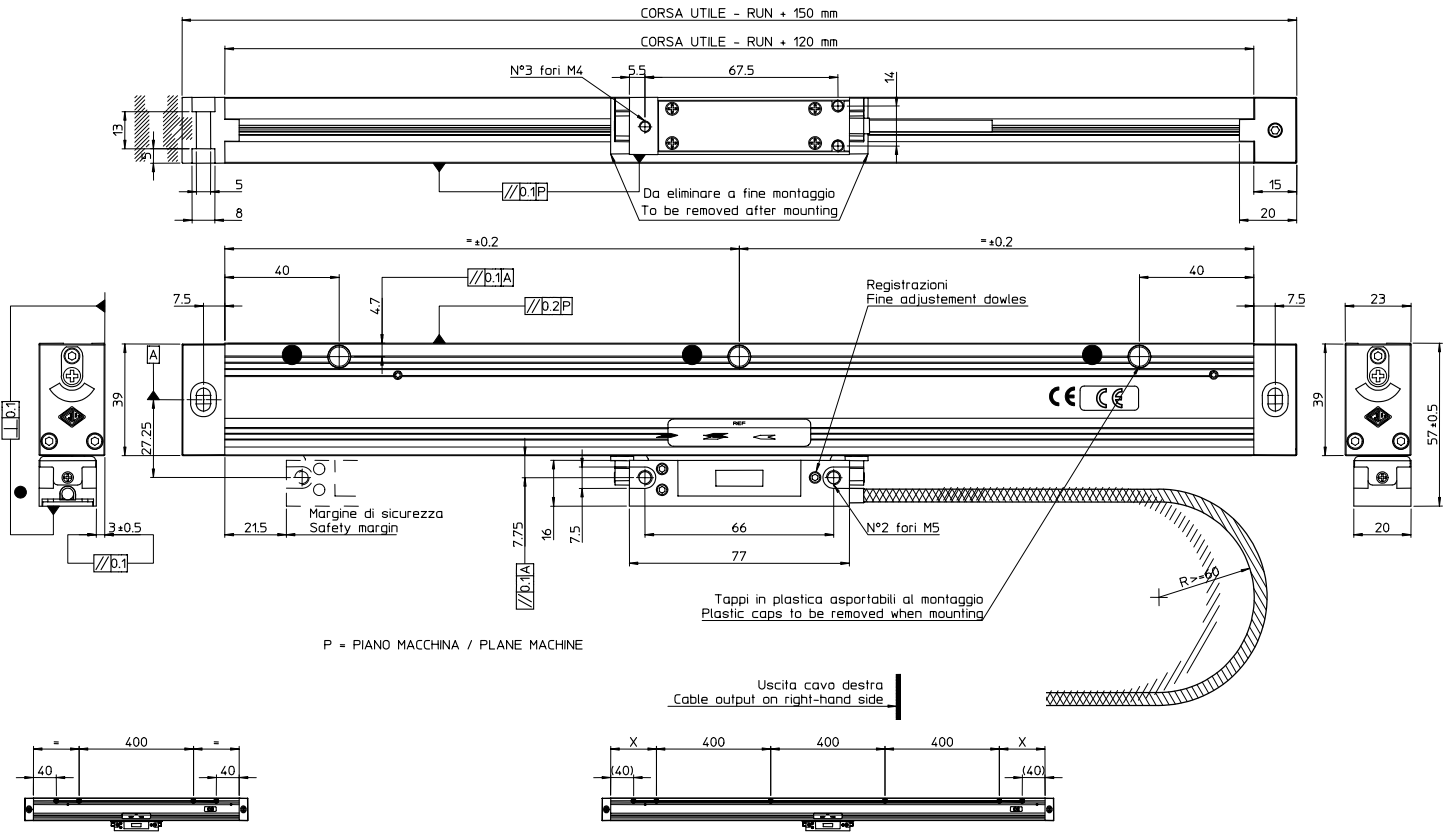
STROKES: standard: 250 to 6500 mm; over 6500 mm: modular version

<i>Mechanical Specifications</i>	<i>KD10</i>	<i>KD100</i>	<i>KD200</i>	<i>KD1000</i>
Case	extruded aluminium			
Measuring element	out of stainless steel with thermal compensation			
Operating principle	photoelectric reading by reflection			
Dimensions	23 x 56.7 mm			
Total dimensions	stroke + 150 mm			
Grating pitch	400 µm	40 µm	20 µm	40 µm with inside divider by 10
Reading resolution after the external electronic quadrupling	0.1 mm	0.01 mm	0.005 mm	0.001 mm
Protections	anti-oil double gum sealing			
Accuracy (at 20°C)	± 0.010 mm/m	± 0.005 mm/m	± 0.003 mm/m	± 0.003 mm/m
Max. speed	120 m/min	80 m/min	60 m/min	25 m/min
Max. acceleration	40 m/sec. ²	30 m/sec. ²	30 m/sec. ²	25 m/sec. ²
Thermal expansion	ppm/°C/m = ± 10.6 T rif. 20°C ± 0.1°C			
Vibration resistance (10÷2000 Hz)	100 m/sec. ²			
Shock resistance (11 ms)	≤ 150 m/sec. ²			
Operating temperature	0÷50 °C relative humidity 20-80%			
Stocking temperature	-20÷70 °C			
Protection degree	standard IP54, pressured type IP64			

<i>Electrical Specifications</i>	<i>KD10</i>	<i>KD100</i>	<i>KD200</i>	<i>KD1000</i>
Zero pulse	1 zero reference at half measuring length (other positions on request)- type 1Z			
Supply	standard: 12Vdc - 40 mA / on request: 5 Vdc 65 mA			5Vdc 65mA
Output signals	2 square waves 90° degree out of phase			
Electronic outputs	NPN pull-up collector/ optional 5 Vdc line driver			5Vdc line driver
Connections	standard cable with metal sheat 4 mt long			

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Mechanical Dimensions



Forature per corse comprese tra 700 e 1100 mm
Drilling diagram for runs between 700 and 1100 mm included

Per corse superiori a 1100 mm foratura passo 400 $\pm 0.2\ mm$ - Aggiungere due fori a 40 mm se $X > 175\ mm$
Drilling pitch is 400 mm when the run exceeds 1100 mm, add two holes at 40 mm when $X > 175\ mm$