MAIN EXPORT COUNTRIES:





The company under the nation Precizika Metrology" began work after the change of name of the Lithuanian - American Joint Venture "Brown & Sharpe - Precizika". The company has a proud history of old traditions in the leadership of design and production of metrological equipment. workforce has been involved for over fifty years in the supply of measuring technology and systems to automate factories as well as in the developm of optical scale manufacturing technology.

In 2000, the production process was certified to fully meeting the requirements of EN ISO 9002:1994, in 2003 – EN ISO 9001:2000.

The company's goal is to consistently supply high quality products and services to meet customer demands on a timely basis. The company's maproducts are linear and angular glass scale gratings, and the linear and rotary displacement measuring systems.

JSC "Precizika Metrology" represents worldwide known companies and suppliers of measuring equipment, CNC centers, executes installation and PHOTOELECTRIC LINEAR ENCODER services of them, trains the users, and executes upgrading of used CMM and manual cutting machine-tools.





www. precizika.lt

Žirmūnų str. 139, LT-09120 Vilnius, Lithuania sales@precizika.lt Tel.: +370 (5) 236 3683 Fax.: 370 (5) 236 3609 Modular sealed photoelectric linear encoder L23 has measuring length up to 20 meters and more on special order. The encoder is used to convert linear displacements of machine key components into electrical signals containing information about the value and direction of the displacement. The encoder operates in reflected from metal band light beam. Metal band with made on its surface grating scale is fixed in rigid aluminium housing with double protection lips. The encoder consists of several separate modules with length up to 3,0 m, which are jointed together, and reading head. The standard encoder has three square-wave TTL output signals: 2 main signals, shifted by 90 degrees and one reference signal.





L23

RECOMMENDED APPLICATIONS

















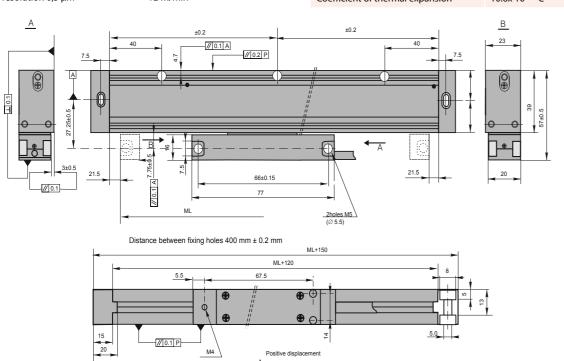
TURNING MACH & CENTERS

CNC CUTTING MACHINES AUTOMOTI V

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MECHANICAL DATA

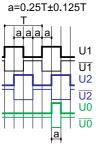
Measuring lengths (ML), mm	250, 300, 350, 400, 450, 50020000 (more on option)	Reference marks (RI): - N - M	without reference mark every 50 mm RI number and place	
Accuracy grades to any metre within the ML (at 20 $^{\circ}\text{C})$	±10; ±5; ±3 μm	- P (optional)		
		Required moving force	< 4 N	
Grating period (T)	400; 40; 20 μm	Protection (IEC 529) -without compressed air -with compressed air	IP54 IP64	
Max. traversing speed: - when T=400 μm and resolution		Weight	0.4 kg + 2.8 kg/m	
- when 1=400 µm - when T=40 µm and: - resolution 10, 5 µm - resolution 1 µm - when T=20 µm and: - resolution 5 µm - resolution 0,5 µm	120 m/min 80 m/min 25 m/min 60 m/mi 12 m/min	Operating temperature	0+50 °C	
		Storage temperature	-20+70 °C	
		Permissible vibration (102000 Hz)	\leq 100 m/s 2	
		Permissible shock (11 ms)	\leq 150 m/s 2	
		Coefficient of thermal expansion	10.6x 10 ⁻⁶ °C	



ELECTRICAL DATA

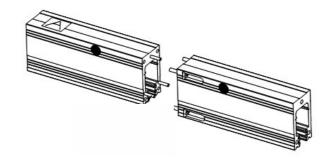
VERSION	L23-F □ πL
Supply voltage (U _p)	+5V±5%/ 65 mA; +12V±5%/ 65mA
Light source	LED
Resolution	100, 50; 10; 5; 1; 0.5 μm (after 4-fold in subsequent electronics)
Incremental signals	Differential square-wave U1/U1 and U2/U2
Reference signal	Differential square-wave U0/U0
Signal levels at load current 20 mA:	- low (logic "0") < 0.5 V at Up=+5V - high (logic "1") > 2.4 V at Up=+5V - low (logic "0") < 1.5 V at Up=+12V (HTL) - high (logic "1")>(Up-2) V at Up=+12V (HTL)
Direction of signals	U2 lags U1 (displacement from left to right and head position down)
Standard cable length	4 m armoured, without connector
Maximum cable length	25 m
Output signals	

Output signals



Note: If cable extension is used the power supply conductor section should not be smaller than 0.5 mm

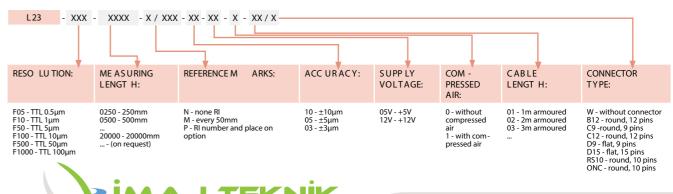
MODULE CONNECTION PRINCIPLE



ACCESSORIES

CONNECTORS FOR C ABLE	B12 12-pin round connector	C9 12-pin round connector	C12 12-pin round connector	D9 9-pin flat connector	D15 15-pin flat connector	RS10 10-pin round connector	ONC 10-pin round connector
DIGIT AL RE ADOUT DE VICES	CS3000			CS5500			

ORDER FORM





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