MAIN EXPORT COUNTRIES:



The company under the name **JSC "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. Its workforce has been involved for over fifty years in the supply of measuring technology and systems to automate factories as well as in the development 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 main products 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 services of them, trains the users, and executes upgrading of used CMM and manual cutting machine-tools.



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.



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PRECIZIKA METROLOGY







RECOMMENDED APPLICATIONS





PACKAGING





FACTORY AUTOMATION







CNC CUTTING MACHINES

ELECTRICAL DATA

VERSION	L23-F TU TTL
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
Incremental signals	Differential square-wave U1/U1 and 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 (H - high (logic "1")>(Up-2) V at Up=+12V
Direction of signals	U2 lags U1 (displacement from left to r
Standard cable length	4 m armoured, without connector
Maximum cable length	25 m
Output signals	



MECHANICAL DATA

Measuring lengths (ML), mm	250, 300, 350, 400, 450, 50020000 (more on option)
Accuracy grades to any metre within the ML (at 20° C)	±10; ±5; ±3 µm
Grating period (T)	400; 40; 20 µm
Max. traversing speed:	
100, 50, 10 μm - when T=40 μm and:	120 m/min
- resolution 10, 5 µm	80 m/min
- resolution 1 µm	25 m/min
- when T=20 µm and:	
- resolution 5 µm	60 m/mi
	0011/11

Reference marks (RI): - N - M - P (optional)	without reference mark every 50 mm RI number and place
Required moving force	< 4 N
Protection (IEC 529) -without compressed air -with compressed air	IP54 IP64
Weight	0.4 kg + 2.8 kg/m
Operating temperature	0+50°C
Storage temperature	-20+70°C
Permissible vibration (102000 Hz)	$\leq 100 \text{ m/s}^2$
Permissible shock (11 ms)	\leq 150 m/s ²
Coefficient of thermal expansion	10.6x10 ⁻⁶ °C





Note: If cable extension is used the power supply conductor section should not be smaller than 0.5 mm².

MODULE CONNECTION PRINCIPLE



in subsequent electronics) 2/U2

HTL) / (HTL) right and head position down)

