MAIN EXPORT COUNTRIES:





The company under the nd&@"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 developmen 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 manufacturing technology. & Sharpe - Precizika". The company has a proud history of old traditions in the leadership of design and production of metrological equipment. Its

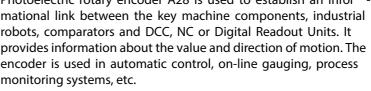
The company's goal is to consistently supply high quality products and services to meet customer demands on a timely basis. The company's m products are linear and angular glass scale gratings, and the linear and rotary displacement measuring systems.

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



Žirmūnų str. 139, LT-09120 Vilnius, Lithuania sales@precizika.lt Tel.: +370 (5) 236 3683 Fax.: 370 (5) 236 3609 www. precizika.lt

Photoelectric rotary encoder A28 is used to establish an infor mational link between the key machine components, industrial robots, comparators and DCC, NC or Digital Readout Units. It provides information about the value and direction of motion. The encoder is used in automatic control, on-line gauging, process monitoring systems, etc.







A28

RECOMMENDED APPLICATIONS





















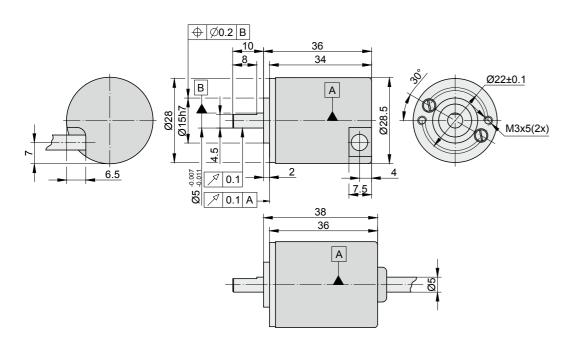






MECHANICAL DATA

| Line number on disc (z) | 60; 100; 200; 250; 360; 500; 1000; 1024; 1500; 2000; 2500 | Protection (IEC 529) - for axial cable outlet - for axial cable outlet through gland and for radial cable outlet | IP 54 IP 64 |
|---|--|--|------------------------|
| Number of output pulses per revolution | Z x k, where k=1,2,3,4,5,8,10 | Maximum weight without cable | 0.045 kg |
| Maximum shaft speed | 6000 rpm | Operating temperature | -10+70 °C |
| Maximum shaft load: - axial - radial (at shaft end) | 5N 10N | Storage temperature | -30+80 °C |
| Accuracy (T,-period of lines on disc in arc. sec) | ±0.1T ₁ arc. sec | Maximum humidity (non-condensing) | 98 % |
| Starting torque at 20 °C | ≤ 0.015 Nm | Permissible vibration (55 to 2000 Hz) | ≤ 100 m/s ² |
| Rotor moment of inertia | < 2 gcm ² | Permissible shock (11 ms) | \leq 300 m/s 2 |



ELECTRICAL DATA

| VERSION | A28-F □ □TTL | | |
|------------------------------------|---|--|--|
| Supply voltage | $+5 \text{ V} \pm 5\%$ | | |
| Max. supply current (without load) | 120 mA | | |
| Light source | LED | | |
| Incremental signals | Differential square - wave U1/U1 and U2/U2. Signal levels at 20 mA load current: - low (logic "0") \leq 0.5 V - high (logic "1") \geq 2.4 V | | |
| Reference signal | One differential square-waveU0 $\overline{\text{JU0}}$ per revolution. Signal levels at 20 mA load current: - low (logic "0") \leq 0.5 V - high (logic "1") \geq 2.4 V | | |
| Maximum operating frequency | (160 x k) kHz , k-interpolation factor | | |

| Direction of signals | U2 lags U1 for clockwise rotation (viewed from shaft side) | | |
|----------------------------|--|--|--|
| Maximum rise and fall time | < 0.5 μs | | |
| Standard cable length | 0.5 m; without connector | | |
| Maximum cable length | 25 m | | |

a=0.25T±0.125T aaaa

ACCESSORIES

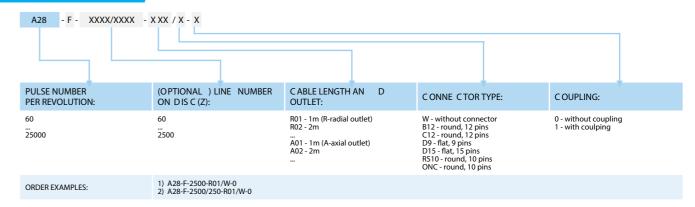
| CONNE CTORS FOR CABLE | B12 12-pin round connector | C12 12-pin round connector | D9 9-pin flat connector | D15 15-pin flat connector | RS10 10-pin round connector | ONC 10-pin round connector |
|--------------------------|----------------------------------|----------------------------------|-------------------------------|---------------------------------|-----------------------------------|----------------------------------|
| | | | | | | |
| DIGITAL REA DOUT DEVICES | | CS3000 | | | CS5500 | |
| | | | | | | |
| COUPLING | | | SC | 30 | | |

Output signals

Notes:

- 1. Maximum working rotation speed (with proper encoder counting) is limited by maximum operating frequency and maximum mechanical rotation speed.
- 2. If cable extension is used, power supply conductor cross-section should not be smaller than 0.5 mm2.

ORDER FORM





www.imajteknik.com.tr • info@imajteknik.com