

ANGULAR ENCODER EPO-02 (DIGITAL HALL EFFECT- UNCONTACTING)



- For position measurement in the automatic control, steering and measuring systems
- EPO-02 angular encoder with Hall effect sensor - uncontacting
- Independent settings of "0" and measuring range

THE ANGULAR ENCODER TYPE EPO-02 ARE DESIGNED FOR POSITION MEASUREMENT IN AUTOMATIC CONTROL, STEERING AND MEASURING SYSTEMS. THEY CONVERT CHANGE OF THE TRANSDUCER AXIS ROTATION ANGLE INTO STANDARDIZED CURRENT SIGNAL 4-20 mA. MEASUREMENT OF ANGLE IS REALIZED BY MEANS OF HALL EFFECT DEVICE. THE ANGULAR ENCODER IS MADE ON THE BASIS OF CONTEMPORARY TECHNOLOGIES WHICH GUARANTEE HIGH STABILITY AND LONG-TERM LIFE OF CONVERSION CIRCUIT.

TECHNICAL DATA

- two-wire power supply	12÷36V DC *
- power consumption	≤1 VA
- measuring range	0÷360°
- setting of range	20÷100%
- output signal	4÷20mA
- characteristics of conversion	linear, dependent of the transducer axis rotation angle
- load resistance	$0 \div R_{\max} \leq 1 \text{ k}\Omega$ $R_{\max} = (U_z - 12\text{V}) / 20\text{mA}$
- conversion error	≤0,3 %
- hysteresis for FSO**	≤0,2 %
- protection degree	IP65
- ambient temperature effect for FSO**	≤0,15 %/10°C
- resistance to vibrations	5G
- operating temperature	-40÷80°C
- mechanical life time	life time, practically unlimited
- mass	200g

* the wires "+" and "-" have got the connection from the PE protective earthing terminal, through transils of 63 V voltage.

** FSO - maximum range