

















Absolute singleturn and multiturn (battery buffered) solid shaft rotary encoders are used for generation of coded output signals which provide information about controlled object absolute position.

In singleturn version rotary encoder AK36 has resolution from 9 up to 21 bit per revolution. Output signals interface is BiSS C or SSI. Operating principle is photoelectrical.

In multiturn version AK36 has singleturn resolution from

9 up to 21 bit per revolution with 12/16/20/24 bit resolution of multiturn counter on BiSS C interface. With SSI interface the encoder AK36 has resolution from 9 up to 21 bit per revolution with 9 up to 40 bit resolution of multiturn counter. Battery is placed inside of encoder. Operating principle is photoelectrical and magnetic.

Absolute encoder is intended to use in robotics industry, automated and automatizated lines in industry, control devices of equipment and machines, various control systems, precise machine tools and others.

MECHANICAL DATA

Maximum shaft speed	10000 rpm
Maximum shaft load: - axial - radial (at shaft end)	5N 10N
Starting torque at 20°C	≤ 0.002 Nm
Rotor moment of inertia	< 2 gcm ²
Protection (IEC 529) - Standart - Optional	IP54 IP64
Maximum weight without cable	0.1 kg

Operating temperature:
- singleturn version
- multiturn version
- multiturn version

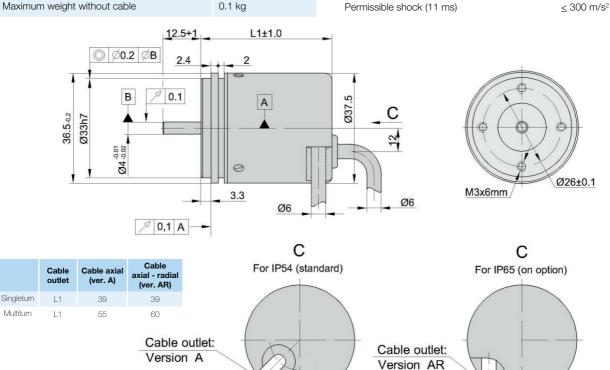
Storage temperature:
- singleturn version
- 30...+90 °C
- multiturn version
- multiturn version
- 20...+80 °C

Maximum humidity (non-condensing)

98 %

Permissible vibration (55 to 2000 Hz)

≤ 100 m/s²



450

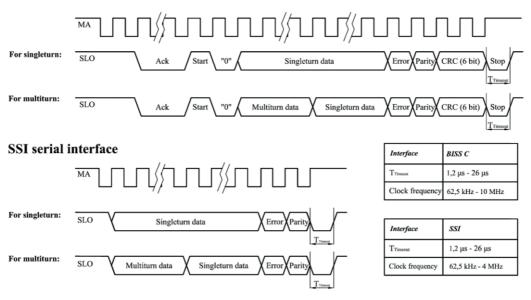


ELECTRICAL DATA

Resolution:	
Singleturn version: - with interface BISS C - with interface SSI	9 21 bit 9 21 bit
Multiturn version: - single turn resolution with BiSS C - multiturn resolution with BiSS C - single turn resolution with SSI - multiturn resolution with SSI	9 21 bit 12/16/20/24 bit 9 21 bit 9 40 bit
Output code	Gray, binary
Data interface	SSL BISS C

Accuracy	± 30 arc sec
Supply voltage	$+5V \pm 5\%$
Light source	LED
Maximum operating frequency: - with interface BISS C - with interface SSI	10 MHz 4 MHz
Cable length (standard)	1 m
Standard cable length	1 m, without connector
Maximum cable length	25 m

BiSS C serial interface



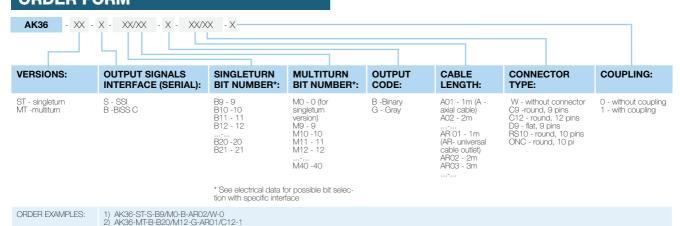
Note:

1. Error and parity bits should be determinated during order.

ACCESSORIES

CONNECTORS FOR CABLE	C9 9-pin round connector	C12 12-pin round connector	D9 9-pin flat connector
COUPLING	SC30		

ORDER FORM



Please confirm configuration options before ordering or contact Customer Service for assistance.