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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

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.



















AK36

RECOMMENDED APPLICATIONS

















ELEVATORS

FACTORY AUTOMATION

AUTOMATIVE INDUSTRY

SOLAR SYSTEMS

LABORATORY FOLIPMENT

3D PRINTING

MOTORS

SFRVO

PACKAGING

MEDICAL **EQUIPMENT**

RETROFOTTING MILLING / BORING /

DRILLING CNC

MACHINES



WIND

SYSTEMS

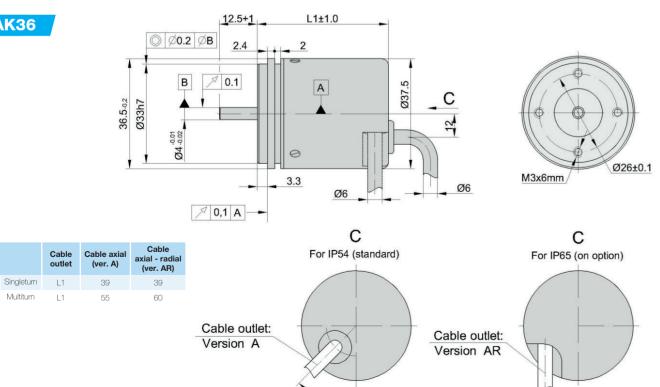


REPLACEMENT

MECHANICAL DATA

Maximum shaft speed	10000 rpm	Operating temperature: - singleturn version - multiturn version	
Maximum shaft load: - axial - radial (at shaft end)	5N 10N		-20+80 °C -10+70 °C
Starting torque at 20°C	≤ 0.002 Nm	Storage temperature: - singleturn version - multiturn version	-30+90 °C -20+80 °C
Rotor moment of inertia	< 2 gcm ²	maidan voicion	
Protection (IEC 529) - Standart IP64 - Optional	IP54	Maximum humidity (non-condensing)	98 %
	IP64	Permissible vibration (55 to 2000 Hz)	\leq 100 m/s 2
Maximum weight without cable	0.1 kg	Permissible shock (11 ms)	\leq 300 m/s ²

AK36



ELECTRICAL DATA

Resolution:

Singleturn version:

with interface BiSS C 9... 21 bit - with interface SSI 9... 21 bit

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

	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

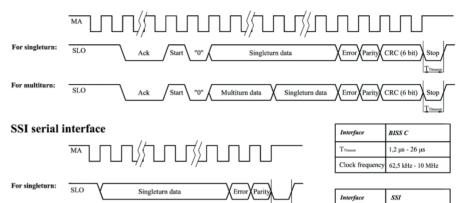
1,2 μs - 26 μs

Clock frequency

62,5 kHz - 4 MHz

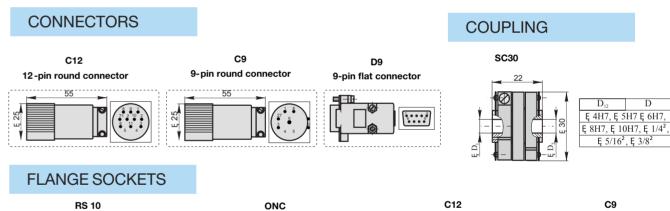
BiSS C serial interface

Multiturn data

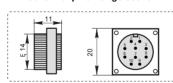


1. Error and parity bits should be determinated during order.

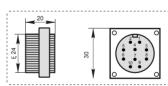
ACCESORIES

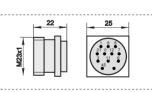




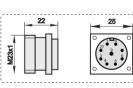


ORDER EXAMPLES: 1) AK36-ST-S-B9/M0-B-AR02/W-0 2) AK36-MT-B-B20/M12-G-AR01/C12-1

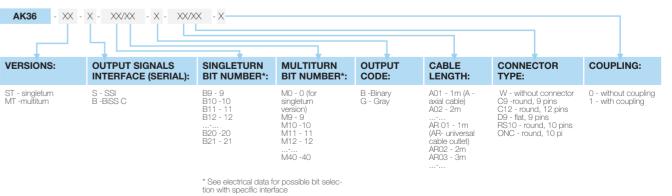




Round 12-pins flange socket



Round 9-pins flange socket



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