

■ General Mechanical Specifications

Mechanical angle	360° (Endless)
Protection degree	IP67
Operating torque	<1mN.m
Max.speed	6000rpm
Life expectancy	100,000,000
Mass	Approx.100g
Housing material	Anodized aluminum alloy
Shaft material	Stainless steel

■ Environmental Specifications

Operating temperature range	-40°C ~ + 85°C
Storage temperature range	-40°C ~ + 85°C
ESD durability	(Contact discharge) ± 8KV, (Aerial discharge) ± 15KV, EN61000-4-2:2009
EMS durability	10V/m (80MHz ~ 1GHz, 1KHz 80% Amplitude modulation) EN61000-4-3:2006+A1:2010

■ General Electrical Specifications

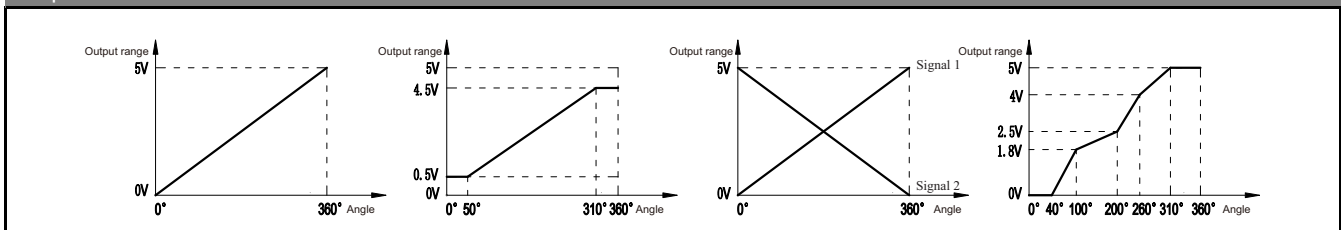
Absolute analog signal

Standard model	R36 0505 W360	R36 2410 W360	R36 2405 W360	R36 2442 W360
Applied voltage	5V±10%	15 ~ 30V	12 ~ 24V	15 ~ 30V
Output signal	0 ~ 100%Vcc	0 ~ 10V	0 ~ 5V	4 ~ 20mA
Current consumption (no-load)	<16mA	<25mA	<25mA	<35mA
Output deviation of both ends	<%1.VCC	<50mV	<50mV	<0.05mA
Load resistance	>10KΩ	>10KΩ	>10KΩ	<600Ω
Electrical angle	360°			
Independent linearity tolerance	±0.3%			
Resolution	4096 (12 Bit)			
Update rate	0.3ms			

Terminal connection instructions

Red	Black	Brown
VCC	GND	OUT

Output characteristics



■ Special Specifications Available

Wide voltage input	Available for special wide voltage input (as 9 ~ 30V.etc)
Other output signals	Available for PWM signal product Available for Incremental signal product Available for SER, SSI, SPI and other digital signal products We can also provide bus signal products, you can follow our encoder sample data for more informations
Special shaft	Special length of shaft, special diameter or special machining on shaft (like shaft slotted, fattened etc.)
Special mechanical angle	With stopper (Rotating angle becomes 345°, 270°, 180°, 90°). Other rotating angle can be customized.
Special torque	Low torque <0.5mN.m or high torque <30mN.m.

* For other special requirements, please contact with us.

(In case of the potentiometer with special specifications, the general mechanical, electrical specifications and environmental specifications may change. Please consult with us in advance.)

(All details given in this catalog may be subject to change without prior notice in order to continuously improve qualities and designs of our products.)