



Type 2RMHD-AC

- Shaft Encoder
- Shaft - $\varnothing 12$ and $\varnothing 15$ mm
- Current Output 0 – 20mA or 4 – 20mA
- Full Range Output over one Revolution or one half Revolution
- IP 65

Electrical Specifications

Encoder Type:	Absolute Magnetic
Resolution:	2^{10} (1024) points per revolution
Supply Voltage:	12 Vdc min. to 18 Vdc max. or 20 Vdc min. to 28 Vdc max.
Typical Current Consumption:	40 mA @ 20mA output current
Output Current:	0 – 20 mA or 4 – 20 mA
Accuracy:	+/- 0,2% of full scale
Output Format:	Full range output over one revolution (360°) or over one half revolution (180°)
Current Sense Resistor:	Max. 400 Ω – recommended 250 Ω
Output Update Rate:	2610 updates/sec. ~ 383 μ sec. per update
Electrical Protection:	Reverse polarity and output short circuit protected
Noise Immunity:	Tested to EN61000-6-2 : 2005 (industrial environments) Electromagnetic compatibility (EMC) and EN 61000-6-3 : 2007 (residential, commercial, and light-industrial environments) for Electromagnetic compatibility (EMC)

** = It is recommended user not to combine max. values for all 3 parameter

Mechanical Specifications

Material:	Housing: Aluminum Cap: Aluminum Hollow Shaft: Aisi 303
Weight:	Encoder: ~ 715 gr (25,2 oz) Cable: 50 gr / meter (1,76 oz / meter)
Bearing Life:	> 1,9 x 10 ¹⁰ revolutions at rated load
Shaft Speed:	3 000 rpm (max.)
Starting Torque:	< 0,1 Nm (14,2 oz-in) at 25° C
Mass Moment of Inertia:	40 gcm ² (5,7 x 10 ⁻⁴ oz-in-sec ²)
Shaft Loads:	Axial: 250 N (56 lbs) max. Radial: 500 N (112 lbs) max.

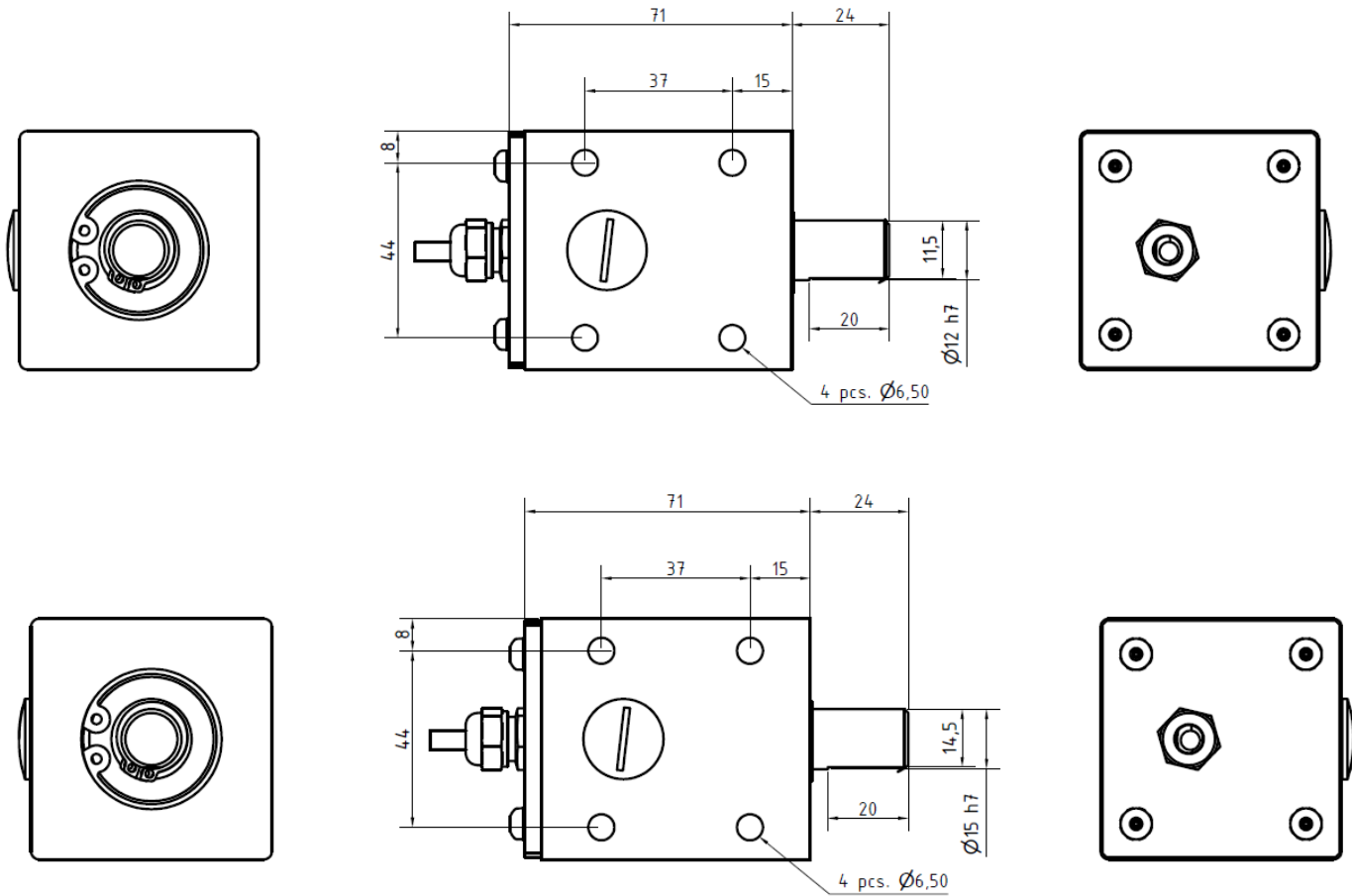
Environmental Specifications

Operating Temp.:	-40° to +85° C
Storage Temp.:	-40° to +85° C
Shock:	100 G / 11 ms
Vibration:	10-2000 Hz / 10 G
Bump:	10 G / 16 ms (1000 x 3 axis)
Humidity:	98 % RH without condensation
IP Rating:	IP 65 / Nema 4 (approx.)

Connection Options

Cable:	8 leads (0,05 mm ² , 30 AWG) - Differential 5 leads (0,14 mm ² , 26 AWG) - Standard twisted pairs; shielded
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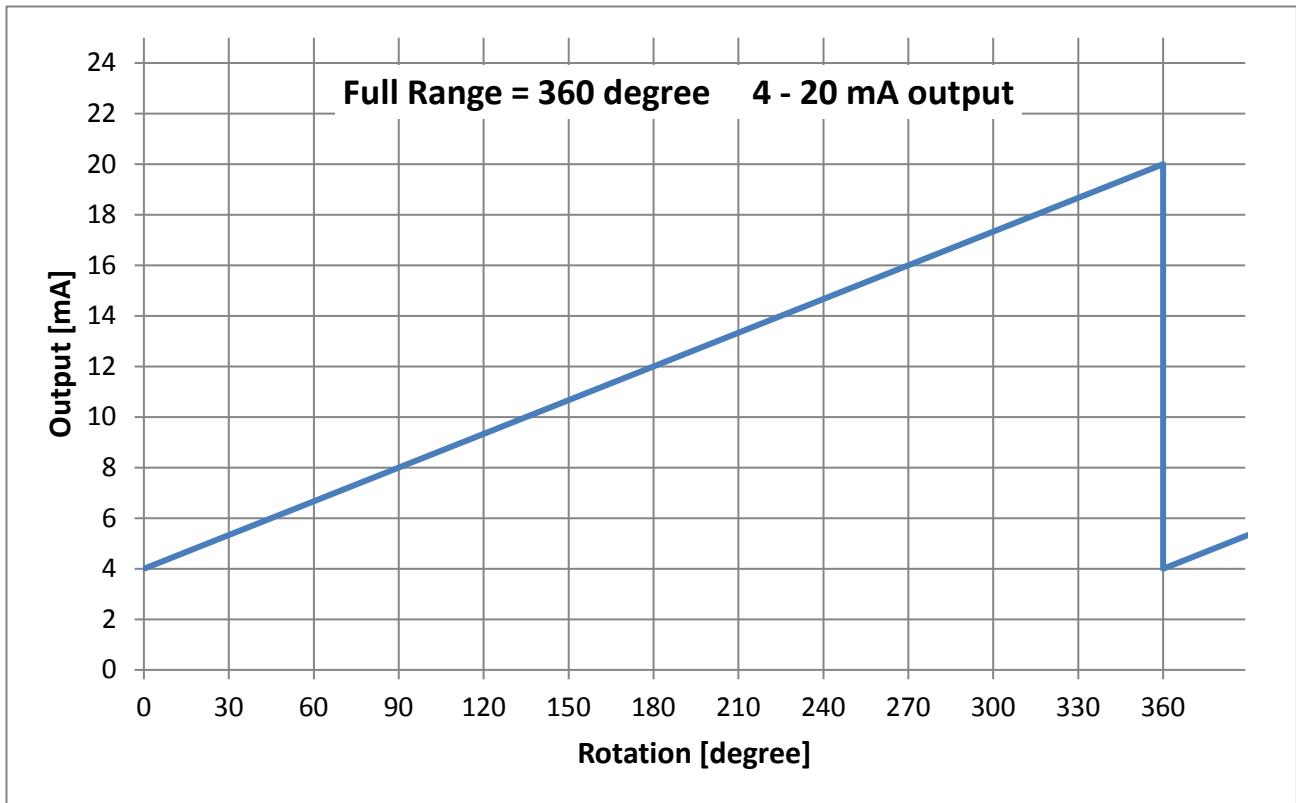
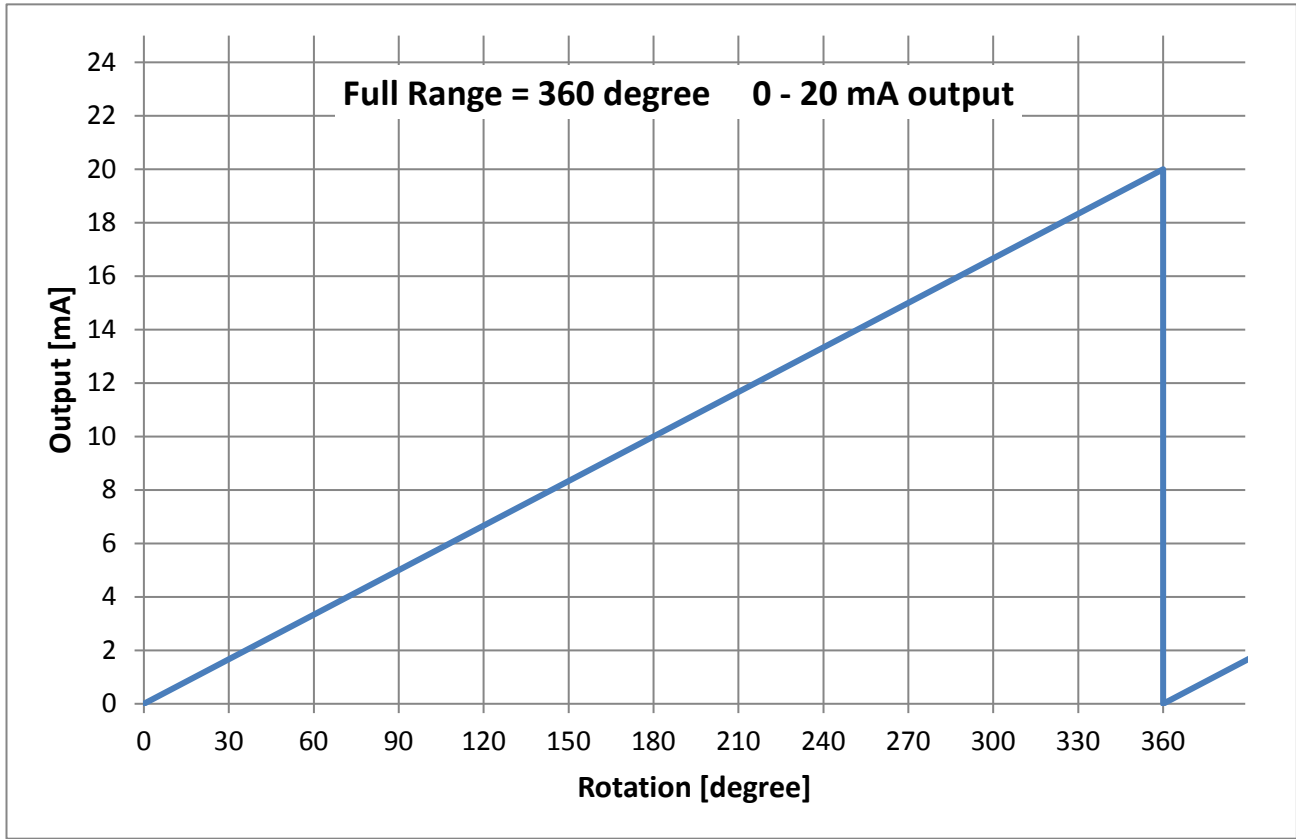
Mechanical Dimensions

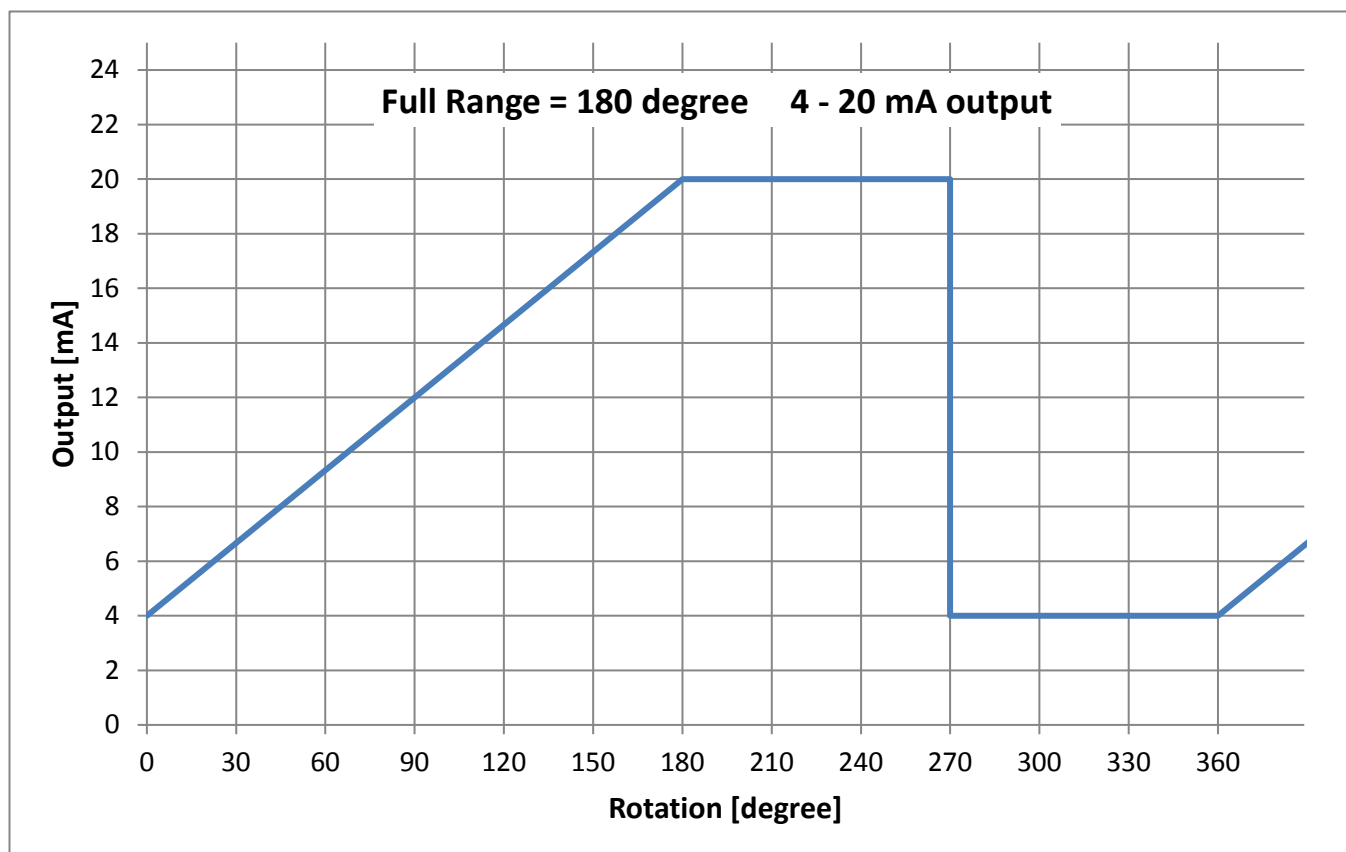
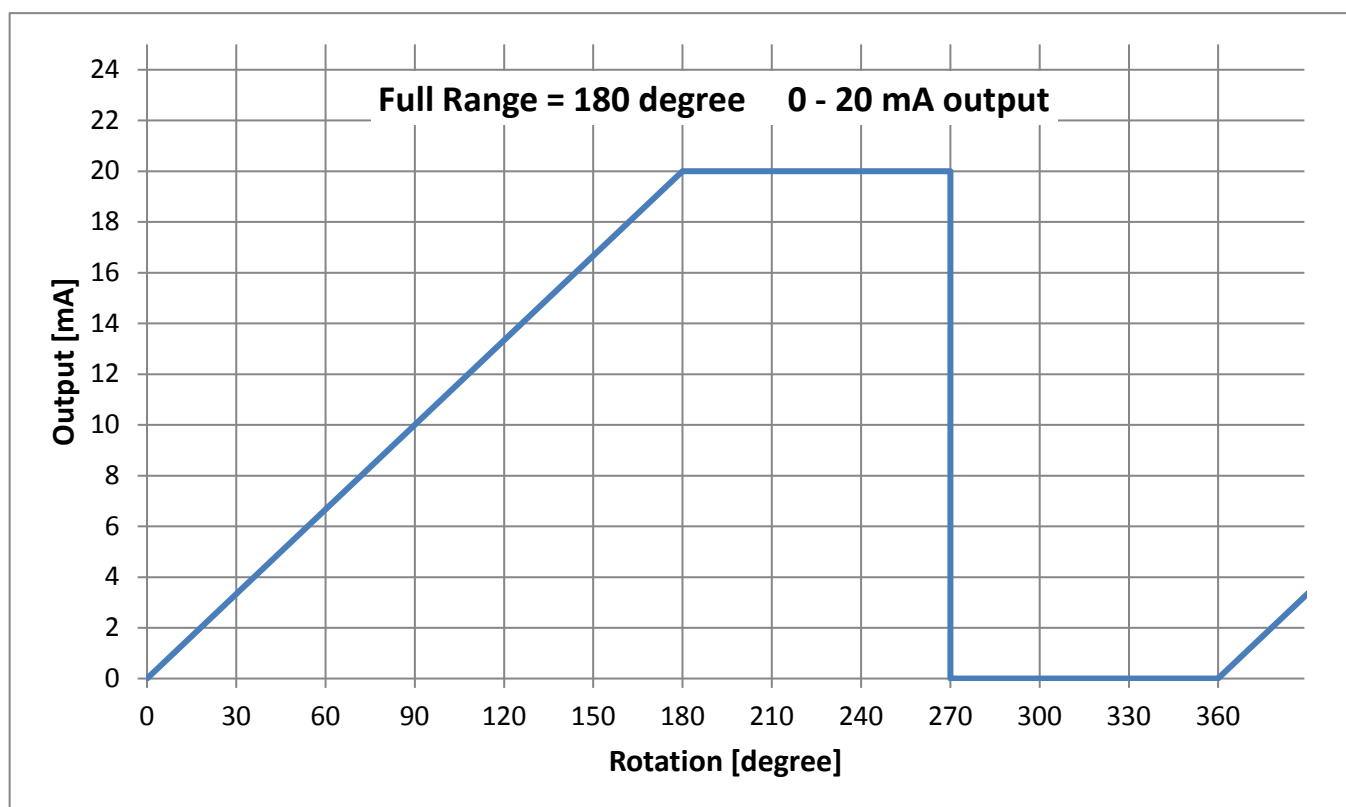


Output Terminations

Cable Connections		
Cable Colour	Name	Function
Red	Vsup	Positive Supply Voltage
Green	Iout	Current Output
Black	GND	Circuit Ground – Current Reference
White	Not Used *)	---

Output Waveforms

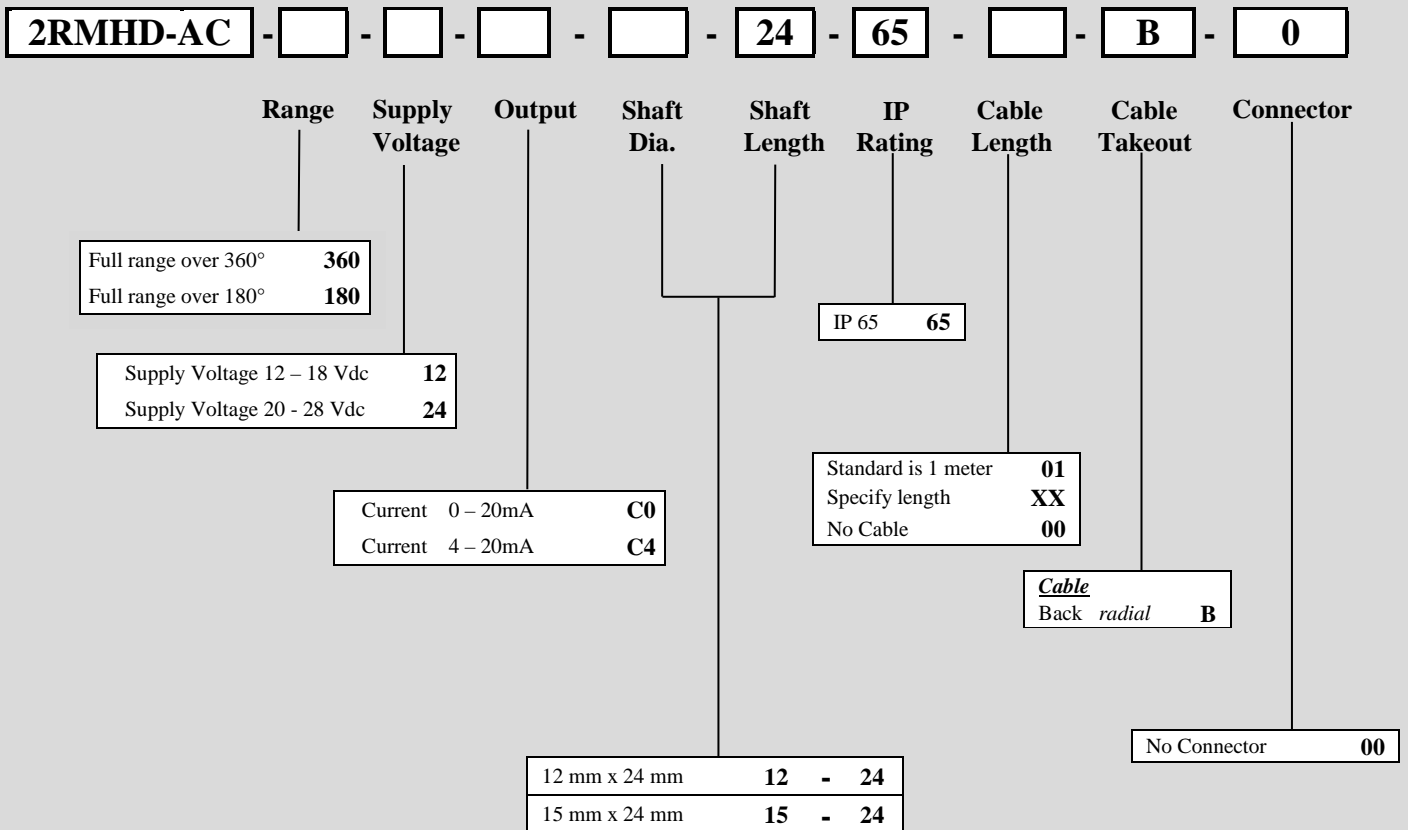




Ordering Code

Example: 2RMHD-AC - 360 - 12 - C4 - 12 - 24 - 65 - 01 - B - 00

Type



Other options on request:
Please contact Scancon A/S

*** Designed specifically for Wind Power applications.

See **SCA24 COC** under *Industries - Wind Power - SCA24* for additional conformity standards testing.

TSM = Transient Suppression Module

Available only as Standard output