

Features and applications:

- Analog rotary encoder with output signal of 4-20mA, 0-5V, 0-10V, 0-20mA
- Housing diameter 60mm, compact design and high protection class up to IP68
- Available resolution up to 16 bits
- Power supply from 5 to 30 Vdc
- Applied in highest industrial requirements



Model	RNK(M)58-J	RNK(M)58-K	RNK(M)58-H	RNK(M)58-T
Housing diameter	Ø 60mm			
Shaft diameter	Solid with clamp flange Ø 6/8/10/12/15 mm	Blind hollow shaft Ø 6/8/10/12/14/15/16/18/20/22 mm		Solid with synchro flange Ø 6mm
Output signal	4-20mA , 0-5V , 0-10V , 0-20mA ( angle, length and speed output set available )			
Supply voltage	5....30 Vdc or 5 Vdc			
Resolution	Standard 12-bits 4096 ( Max. 16-bits 65536 )			
Rotation turn no.	1 or 4096			
Accuracy	±2 bit			
Consumption	< 30mA (at 24Vdc) without load			
Max.speed	3000 r/min			
Shaft load	Radial 80N, axial 40N			
Protection class	IP65 or IP68			
Starting torque	≤3 Ncm			
Operating Temp.	-30°C....85°C ( <-40°C Special make )			
Shock resistance	1000m/s <sup>2</sup> , 6ms ( 100g )			
Vibration resistance	20g			
Connection type	Cable or Connector			
Connection position	Radial / Axial			

### Connection

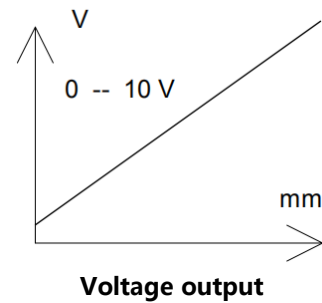
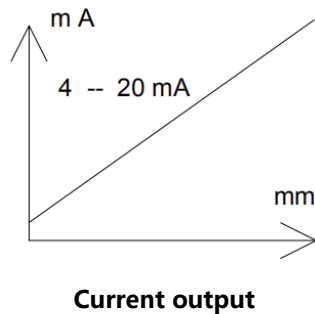
Color	Brown	White	Pink	Black	Green	Yellow	Blue	Gray
Signal	Vcc	0V	Analog +	Analog -	RS485A	RS485B	Programmable set	Reset

Use of Reset: Connect gray wire with 24v power supply wire for 3~5 seconds, remove gray wire. Encoder is set as default at Zero position.

Use of Programmable set(blue wire): at setting mode: combine blue wire and brown wire and connect power supply 24V, connect white wire with ground wire, by this time, communication baud is fixed at 19200bps.

At no-setting mode: normal working condition, it is suggested connecting blue wire and white wire with ground wire

### Output Characteristic :



### Order Reference:

	1	2	3	4	5	6	7	8	9	
	Single-	multi-	XXX	XXX	XX	XXX	X	X	XX	XX
	RNK58	RNKM58 -								
<b>1. Spec. and Series</b>	RNK58J	RNKM58J								
	RNK58K	RNKM58K								
	RNK58H	RNKM58H								
	RNK58T	RNKM58T								
<b>2. Output signal</b>										
RL1	4 - 20mA									
			RL1							
RV0	0 - 10V									
			RV0							
RV5	0 - 5V									
			RV5							
RL0	0 - 20mA									
			RL0							
<b>3. Number of turn</b>										
B01	1									
			B01							
B12	4096 12 bit									
			B12							
<b>4. Resolution per revolution</b>										
12	12 bit (4096 resolution) ST									
13	13 bit (8192 resolution)									
16	16 bit (65536 resolution)									
<b>5. Mechanical mounting dimension</b>										
For details, refer to the mechanical dimension ordering code of 58series single-& multi-turn absolute encoder										
<b>6. Protection class and body material</b>										
0	Protection class IP65, Aluminum body									0
S	Protection class IP68, Aluminum body (work under water available)									S
V	Protection class IP66, Stainless steel heavy-duty body									V
W	Protection class IP68, Stainless steel heavy-duty body(work under water available)									W
H	Protection class IP66, Aluminum body for low temp.									H
<b>7. Connection position</b>										
A	Axial									A
R	Radial									R
<b>8. Connection type</b>										
A1	Cable Ø6.8mm, 8x2x0.35mm <sup>2</sup> , 1m (ST)									A1
AC	Connector									AC
AB	Connector M23									AB
<b>9. EX explosion-proof type</b>										
	EX explosion-proof encoder									EX
	EX II 2G Ex ib IIB T4 Gb									