POSITION-PRO

Analog Absolute Single and Multi-turn Encoder PNK-58/M58

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	PNK(M)58-J	PNK(M)58-K	PNK(M)58-H	PNK(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^2, 6ms（100g）			
Vibration resistance	20g			
Connection type	Cable or Connector			
Connection position	Radial / Axial			

Connection

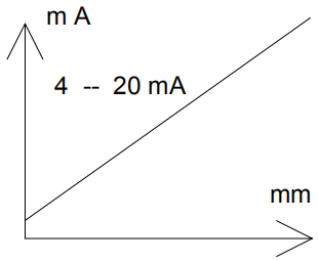
Color	Brown	White	Pink	Black	Green	Yellow	Blue	Gray
Signal	Vcc	0V	Analog +	Analog -	RS485A	RS485B	Programmable set	Reset

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.

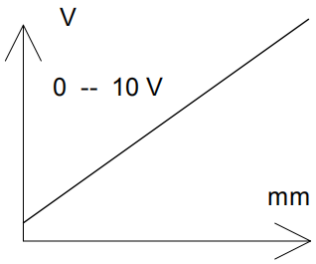
Use of Programmable set(blue wire): at setting mode: combine blue wire and brown wire and connect power supply 24V, connect white wire with ground wire, by this time, communication baud is fixed at 19200bps.

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

Output Characteristic :



Current output



Voltage output

Order Reference:

	1		2	3	4	5	6	7	8	9
	Single-	multi-	XXX	XXX	XX	XXX	X	X	XX	XX
	PNK58	PNKM58 -								
1. Spec. and Series	PNK58J	PNKM58J								
	PNK58K	PNKM58K								
	PNK58H	PNKM58H								
	PNK58T	PNKM58T								
2. Output signal										
PL1 4 - 20mA			PL1							
PV0 0 - 10V			PV0							
PV5 0 - 5V			PV5							
PL0 0 - 20mA			PL0							
3. Number of turn										
B01 1				B01						
B12 4096 12 bit				B12						
4. Resolution per revolution										
12 12 bit（4096 resolution）ST					12					
13 13 bit（8192 resolution）					13					
16 16 bit（65536 resolution）					16					
5. Mechanical mounting dimension										
For details, refer to the mechanical dimension ordering code of 58series single-& multi-turn absolute encoder										
6. Protection class and body material										
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			
7. Connection position								A		
A Axial								R		
R Radial										
8. Connection type										
A1 Cable Ø6.8mm，8x2x0.35mm^2，1m (ST)									A1	
AC Connector									AC	
AB Connector M23									AB	
9. EX explosion-proof type										EX
EX explosion-proof encoderEX II 2G Ex ib IIB T4 Gb										