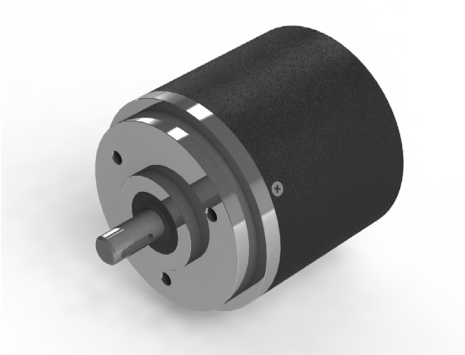
hohner
Elektrotechnik Werne

Series CM24

Series CM24 multi-turn absolute shaft encoder with parallel output



C M 2 4 3 X 1 X / X X / 4 0 9 6

					Resolution - bits
	Output Code				12 x 12 bit (24 bit)
3 = binary cw / ccw					
4 = gray cw / ccw				Exit	
				A = Axial	
	Shaft Size			R = Radial	
1 = 12 x 25 mm					
			Housing		
	Connection Options		B = Aluminum IP 65		
	0 = 2 m cable		P = S. Steel IP 65		
	3 = 5 m cable		M = Aluminum IP 66		
	9 = 26 pin		T = S. Steel IP 66		

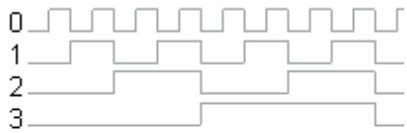
If using the 26 pin connector, cw/ccw selectability is only possible if the resolution is less or equal to 12 x 11 bits (23 bits)

Technical Data

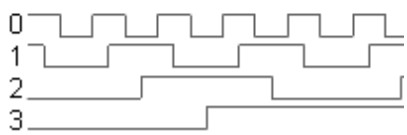
Operating temp:	- 20 ...+ 60 degrees C
	- 4 ...+ 140 degrees F
On request:	-20 ... + 80 degrees C
Power supply:	11 - 24V
Current consumption:	220 mA (max.)
Line driver output max:	50 mA per channel
Weight:	4 kg Stainless Steel
	1.5 kg Aluminum
Protection:	IP 65
Housing:	Aluminum or SS
Shaft:	Stainless Steel
Bearings:	2 x 6001 ZZ C2
Torque:	0.4 oz/in (3 N-cm)
Shaft Seal:	Nitrile Double Lip
Humidity:	Up to 98% permissible
Speed:	300 RPM max.
Shock:	10g (6msec)
Vibration:	5g (500 Hz)
Shaft load:	Radial max 10 lbs

Output

Binary Code Output



Gray Code Output



Connection Options

Bin / Gray	26 pole	Cable	Detail
PS GND	1	Black	**positions / turn**
PS 12...24 V	2	Red	
2-0 (LSB)	3	White	4096
2-1	4	Blue	2048
2-2	5	Yellow	1024
2-3	6	Green	512
2-4	7	Violet	256
2-5	8	Brown	128
2-6	9	Pink	64
2-7	10	Turquoise	32
2-8	11	Gray	16
2-9	12	Orange	8
2-10	13	Green/Red	4
2-11 (MSB)	14	Green/Blue	2
Multiturn Section			**total # of turns**
2-12 (LSB)	*15*	*Yellow/Red*	*2*
2-13	*16*	*White/Red*	*4*
2-14	*17*	*Yellow/Blue*	*8*
2-15	*18*	*White/Blue*	*16*
2-16	*19*	*Blue/Black*	*32*
2-17	*20*	*Orange/Blue*	*64*
2-18	*21*	*White/Green*	*128*
2-19	*22*	*Orange/Green*	*256*
2-20	*23*	*Green/Black*	*512*
2-21	*24*	*Yellow/Violet*	*1024*
2-22	*25*	*Yellow/Brown*	*2048*
2-23 (MSB)	*26*	*White/Brown*	*4096*
cw / ccw		*Black/Red*	

For cw, leave Black/Red disconnected

For ccw, set Black/Red wire to ground.

Multi-turn absolute shaft encorder...

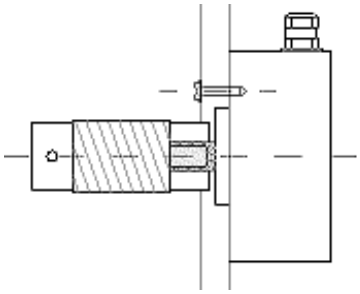
FOR BINARY ONLY: (For different resolution in gray code, specify when ordering)
All our multi-turn encoders are 12 x 12 bit standard. For different resolutions, leave some of the wires disconnected as follows:
Single Turn Changes: The MSB must always be wired and the LSB left unwired to adjust resolution
Multi Turn Changes: The LSB must always be wired and the MSB left unwired to adjust resolution

Example: If 1024 positions / turn are required with 2048 turns in total, make the following changes:

Single Turn Section: Leave pin 3 and 4 disconnected
Multi Turn Section: Leave pin 26 disconnected

Mounting Instructions

To mount encoder on machine: Option 1 is to mount with 3 screws or, option 2 is to mount using synchroflange mounting brackets. Hook up the encoder with the connections as described. Make sure power supply meets specifications. Attach encoder to mounting bracket as shown. Attach shaft using a flexible coupling.



Dimensions