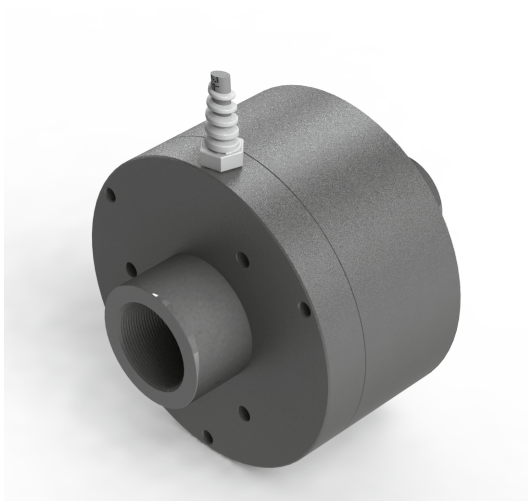
hohner
Elektrotechnik Werne

Series NAMFPX

Series NAMFPX NAMUR (DIN 19234) encoder with threaded shafts for drawworks



NAMFPX XXX XGR/0XXX

Shaft Size	Output	Resolution - ppr
H1 = 1" UNS	1 = A	
H2 = 3/4" BSP	2 = A & B	
H3 = 5/8" BSP	3 = A & B & Ref	
H4 = 1 - 1/4" x 14 tpi	*4 = 2 x A & B*	
(16mm bore)	*Other combinations as well*	
H5 = 5/8" x 18 UNF	Barrier Suitability	
H6 = 1 1/4" x 14 tpi	1 = EG8-T-13HF - (P+F)	
(25mm bore)	2 = KF2D-SOT2/EX2 (P+F)	
H7 = 3/4" UNC	3 = 4013 (MTL)	
	4 = 9350/20-14-10 (Stahl)	

IECEx

Zone 0, Class 1 Div 1

Technical Data

Operating temp:	- 40 ...+ 60 degrees C - 40 ...+ 140 degrees F
Max frequency:	5 kHz
Weight:	53 oz (1.5 kg)
Protection:	IP 66M, NEMA 4
Housing:	Aluminum
Shaft:	Stainless Steel
Bearings:	2 x 6807 ZZ
Torque:	0.8 oz/in (6 N-cm)
Shaft load:	Supports its own weight
Humidity:	Up to 98% permissible
Speed:	Resolution dependant
Max. ppr	512
Shock:	10g (6 msec)
Vibration:	5g (500 Hz)

Connection Options

	Cable 2 meters
+ Loop A # 1	1 or Red (1)
- Loop A # 1	2 or Black (2)
+ Loop B # 1	3 or White (3)
- Loop B # 1	4 or Green (4)
+ Loop O # 1	5 or Yellow (5)
- Loop O # 1	6 or Blue (6)

Connector

Any type of connector with more than 4 pins and an IP rating of 66 can be used, pin allocations will determined by end customer. More than one connector is possible as well.

Output for Channels A&B and O

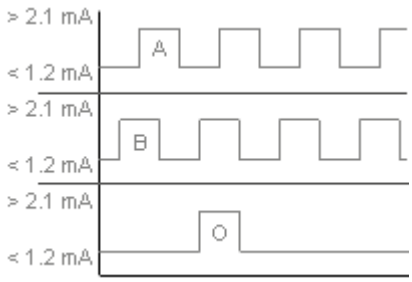


Diagram is shown clockwise

Output for 2 x A&B Channels

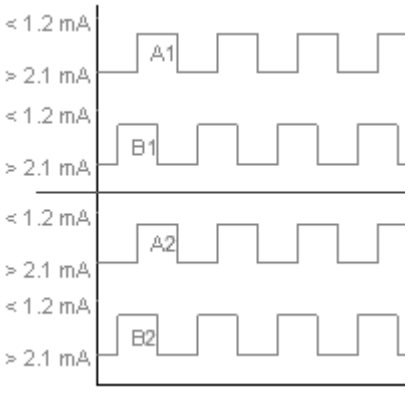


Diagram is shown clockwise

NAMUR Threaded Shaft Encoder

Certifications

Best suited to work with the following isolators: P+F KFD2 SOT2 EX2

IP 66M

ATEX [Certificate]

IECEx [Certificate]

CSA [Certificate]

GOST-CU [Certificate]

Mounting Instructions

Thread the encoder shaft onto the matching threaded shaft and tighten both ends. Add a bit of copper slip for it not to seize up. To keep encoder from rotating: have a pin to prevent rotation in one of the mounting holes, or a bracket bolted onto the mounting holes, or simply tie wrap the cable. Whatever is done, ensure there is a bit of play between encoder and mounting arrangement to prevent bearing damage. Hook up the encoder with the connections as described. Make sure power supply meets specifications.

Dimensions