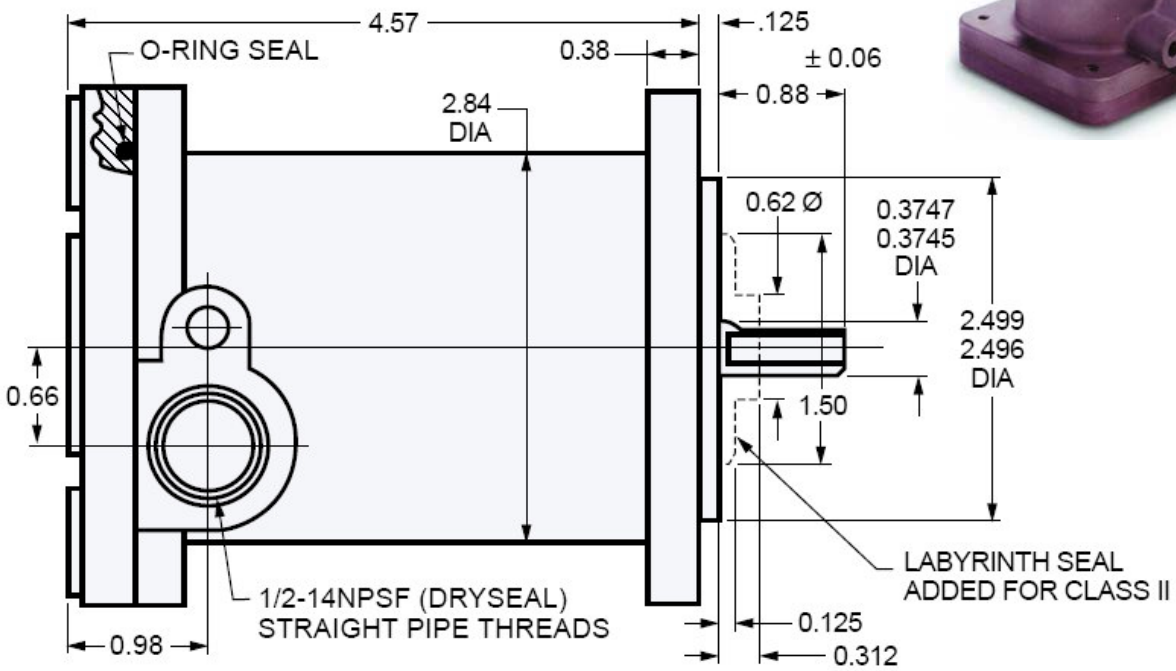
BEI IDEACOD SAS
Espace Européen de l'Entreprise
9, rue de Copenhague
B.P. 70044 Schiltigheim
F 67013 Strasbourg Cedex

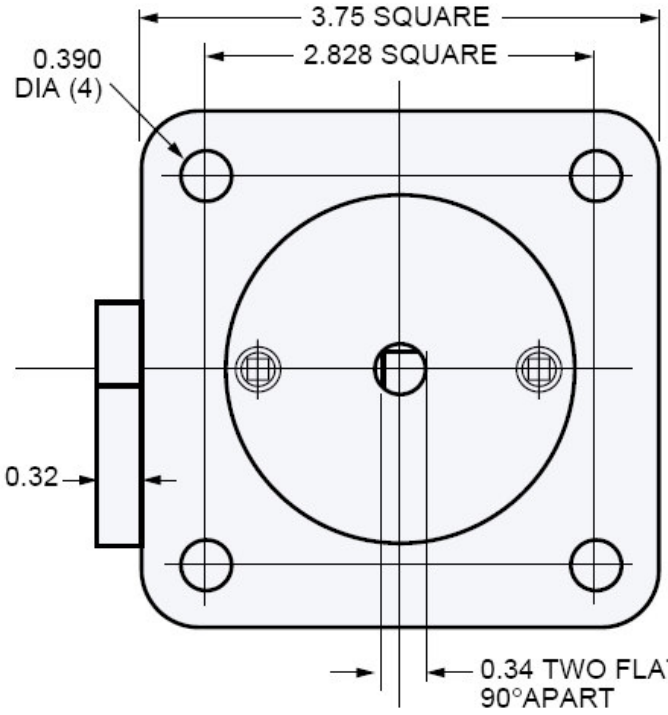
Tél : +33 (0)3 88 20 80 80
Fax : +33 (0)3 88 20 87 87
Mail : info@bei-ideacod.com
Web : www.bei-ideacod.com

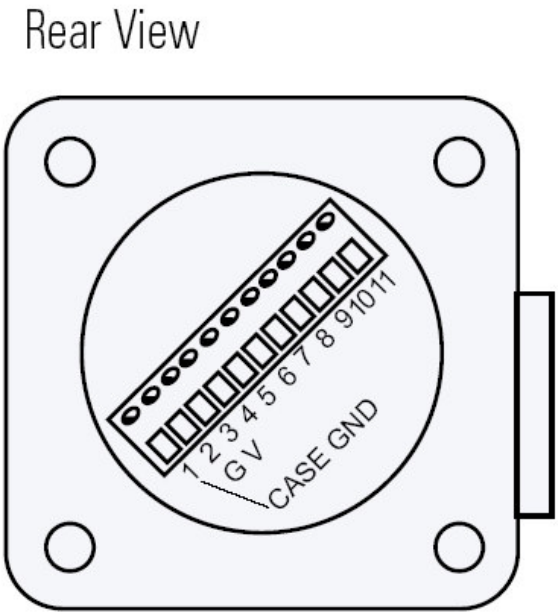
H38

INCREMENTAL ENCODERS, H38 RANGE

The H38 is an explosion proof version of the field-proven H25 encoder series. The H38 is UL certified for NEMA Class 4X and 6 (outdoor non-hazardous locations) and Class 4X and 13 (indoor non-hazardous locations). It's also carries a Class 1, Group D, Division 1; and Class 2, Division 1 Group E, F ang G rating for use in hazardous locations. It features a standard shaft seal, double bearing seals, and a cast aluminium housing with hard anodised and dichromate sealed finish. The H38 is suitable for use in petroleum service industries, solvent refining operations, spray painting applications, and explosive dust environments







TOLERANCES: .XX = ± 0.01, .XXX = ± 0.005

BEI IDEACOD SAS
Espace Européen de l'Entreprise
9, rue de Copenhague
B.P. 70044 Schiltigheim
F 67013 Strasbourg Cedex

Tél : +33 (0)3 88 20 80 80
Fax : +33 (0)3 88 20 87 87
Mail : info@bei-ideacod.com
Web : www.bei-ideacod.com

H38

INCREMENTAL ENCODERS, H38 RANGE

SPECIFICATIONS

Shaft Diameter: 3/8'' nominal
Flats On Shaft: Two flats, 0.80'' long x 0.30'' deep at 90°C
Shaft Loading: Up to 40 pounds axial and 20 pounds radial
Applied ¼'' from housing
Shaft Runout: 0.0005 T.I.R.
Starting Torque at 25°C: 4.0 in-oz (max)
Bearings: Class ABEC 7 standard
Shaft Material: 303 stainless steel
Enclosure: Die cast aluminium, hard anodized with dichromate sealed finish. Shaft seals and sealed bearings are standard to achieve environmental ratings
Bearing Life: 2 x 10^8 revs (1300 hrs at 2500 RPM) at rated load
1 x 10^{10} revs (67,000 at 2500 RPM) at 10% of rated load
Maximum RPM: 10,000 RPM (see Frequency Response)
Moment of inertia: 4.1 x 10^{-4} oz-in-sec^2
Weight: 64 oz typical (approx 4 lbs)

Code: Incremental
Output Format: 2 channels in quadrature, ½ cycle index gated with negative B channel
Cycles per Shaft Turn: 1 to 72,000
for resolutions above 3,600 see interpolations options
Supply Voltage: 5 to 24Vdc available
Current requirements:100mA typical+output load, 250mA (max)
Frequency Response: 100kHz

Protection Level: Reverse overvoltage and output
Short circuit
Ouput Device:
4469: Line Driver, 5-15Vdc, Vout = Vin
7272: Line Driver, 5-28Vdc, Vout = Vin
7272: Line Driver, 5-28Vdc, Vout = 5Vdc (special feature)
7273: Open collector, accepts 5 – 28Vdc
Output Termination: See Table 1
Termination Type: Compression Type, UL recognized. Accepts AWG 14 to 22, standed wire, strip ¼''
Note: Consult our factory for other electrical options

Enclosure rating: NEMA 4 X & 6 (IP66), outdoor
Non –Hazardous locations, NEMA 4 x & 13 (IP 66),
indoor Non-Hazardous locations
Temperature: Operating, 0° to 70°C; extended temperature testing available; storage; -25°C to 90°C unless extended temperature option called out
Shock: 50 g's at 11 msec
Vibration: 5 to 2000Hz @ 20 g's
Humidity: 100%RH
Hazardous Area Rating: Underwriters Laboratories
Listed for use in hazardous locations; NEMA Enclosure 7.
Class 1, Group D, Division 1, NEC Class 2 circuits only
Or Class 2, Group E, F, and G

OUPUT FUNCTION – TABLE 1

TERMINAL PIN	INCREMENTAL OUTPUT
1	CASE GRND
2	GROUND
3	+ V
4	A
5	B
6	Z
7	A/
8	B/
9	Z/
10	SPARE
11	SPARE

EN55011
EN 61000-6-2

CENELEC EEX ia IIB T5

U.S. Standards Class I, Group D, Division 1; Class II, Group E,F,G Requires labyrinth seal

Canadian Standards Class I, Division 1, Group D; Class II, Group E,F&G requires

CSA Class I
Div 1, Group C & D

ORDERING REFERENCE (Interpolation option available: x2, x4, x5, x10, x20 consult us , Special features: consult us)

Type	Housing	PPR	Channels		Output IC	Ouput termination	UL
H38 H = Heavy duty 38 = 3.75'' Square	**D** = square flange	Cycles per Turn Max **72 000**	**A** = single channel **AB** = Dual quad **ABZ** = Dual with index **AZ** = single with index	**C** = comple-mentary output **Blank** = None	**4469**: .voltage line driver 100mA, 5 to 15Vdc **7272**: multi-voltage line -driver 100mA, 5 to 24Vdc **7273**: Open collector current sink of 80mA	**SC** = Side Conduit, ½-14 NPSF (dryseal) straight pipe threads	**UL =** Class I environments **UL2 =** Class I & II environments
Ex: H25	**D**	**2000**	**ABZ**	**C**	**4469**	**SC**	**UL2**