

UCD-SLF2B-1616-D10D-2AW



Outputs

Electrical Data

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Sensor

Technology	Magnetic
Resolution Singleturn	16 bit
Resolution Multiturn	16 bit
Multiturn Technology	Self powered magnetic pulse counter (no battery, no gear)
Accuracy (INL)	$\pm 0.0878^\circ$ (≤ 12 bit)
Sense Signal (Default)	Counterclockwise shaft movement (front view on shaft)
Code	Binary

Environmental Specifications

Protection Class (Shaft)	IP68/IP69K
Protection Class (Housing)	IP68/IP69K
Operating Temperature	-40 °C fixed (-40 °F), -30 °C flexible (-22 °F) - +80 °C (+176 °F)
Humidity	98% RH, no condensation

Mechanical Data

Housing Material	Steel
Housing Coating	Powder Coated + Cathodic corrosion protection (>720 h salt spray resistance)
Flange Type	Synchro, $\varnothing$ 36 mm Heavy Duty
Flange Material	Aluminum
Shaft Type	Solid, Length = 20 mm
Shaft Diameter	$\varnothing$ 10 mm (0.39")
Shaft Material	Stainless Steel V4A (1.4112, 440 B), hardened
Max. Shaft Load	Axial 180 N, Radial 180 N
Minimum Mechanical Lifetime (10 ⁸ revolutions with Fa/Fr)	10 (180 N / 180 N), 15 (150 N, 150 N), 30 (100 N / 100 N)
Friction Torque	≤ 5 Ncm @ 20 °C, (7.1 oz-in @ 68 °F)
Max. Permissible Mechanical Speed	≤ 6000 1/min
Shock Resistance	≤ 200 g (half sine 11 ms, EN 60068-2-27)
Permanent Shock Resistance	≤ 30 g (half sine 16 ms, EN 60068-2-29)
Vibration Resistance	≤ 30 g (10 Hz - 1000 Hz, EN 60068-2-6)
Length	56 mm (2.20")
Weight	360 g (0.79 lb)

Data Sheet

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Electrical Connection

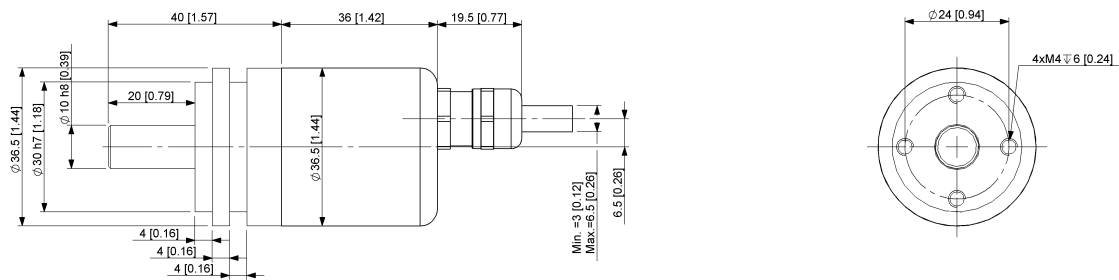
Connection Orientation	Axial
Cable Length	2 m [79"]
Wire Cross Section	0.34 mm ² / AWG 22
Material / Type	PUR / PU
Cable Diameter	7.5 mm (0.30 in)
Minimum Bend Radius	56 mm (2.2") fixed, 75 mm (3") flexing

Certification

Approval	CE + cULus listed, Industrial Control Equipment
Product Life Cycle	Established

Connection Plan

SIGNAL	CABLE COLOR
Power Supply	Brown
GND	White
Data+	Gray
Data-	Pink
Clock+	Green
Clock-	Yellow
Not Connected	Blue
Not Connected	Red
Shielding	Shield



[2D Drawing](#)

Accessories

Coupling Disc Type-10-12
 Coupling Bellow Type-10-10
 Coupling Bellow Type-06-10
 Coupling Bellow Type-08-10
 Coupling Bellow Type-10-12
 Coupling Bellow Type-10-(1/4")
 Coupling Bellow Type-10-(3/8")
 Coupling Jaw Type-06-10
 Coupling Jaw Type-08-10
 Coupling Jaw Type-10-12
 Coupling Jaw Type-10-(1/4")
 Coupling Jaw Type-10-(3/8")
 Coupling Jaw Type-10-10
 Coupling Disc Type-06-10
 Coupling Disc Type-10-10

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More

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The picture and drawing are for general presentation purposes only. Please refer to the "Download" section for detailed technical drawings. All dimension in [inch] mm. © FRABA B.V., All rights reserved. We do not assume responsibility for technical inaccuracies or omissions. Specifications are subject to change without notice.