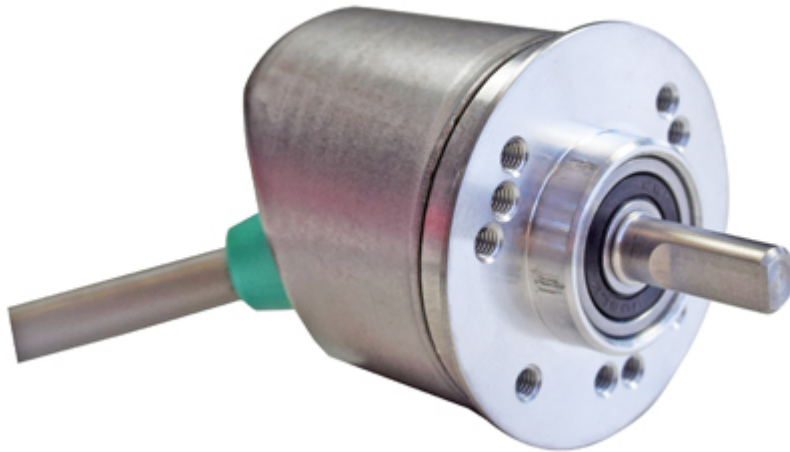




UCD-IPH00-XXXXX-02M0-2TW



Interface

Interface	Programmable Incremental
Programming Functions	PPR (1-16384), Output, Counting Direction
Programmable Output	Push-Pull (HTL) or RS422 (TTL)
Configuration Tool	UBIFAST Configuration Tool (Version $\geq$ 1.6.3)

Outputs

Output Driver	Push-Pull (HTL)
Output Voltage High Level Push-Pull (HTL)	> 4 V @ 4.75-9 V Supply Voltage > V-3 V @ 9-30 V Supply Voltage
Output Voltage High Level RS422 (TTL)	> 4 V

Output Voltage Low Level RS422 (TTL)	< 0.5 V
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Output Voltage Low Level Push-Pull (HTL)	< 0.5 V
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Maximum Frequency Response	1 MHz
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Maximum Switching Current	50 mA per Channel
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Electrical Data

Supply Voltage	4.75 - 30 VDC
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Current Consumption	≤140mA @ 5V DC, ≤70mA @ 10V DC, ≤40mA @ 24V DC
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Power Consumption	≤ 1.0 W
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Start-Up Time	< 1 s
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Min. Load Resistance	120 Ω
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Reverse Polarity Protection	Yes
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Short Circuit Protection	Yes
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EMC: Emitted Interference	DIN EN 61000-6-4
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EMC: Noise Immunity	DIN EN 61000-6-2
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MTTF	280 years @ 40 °C
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Sensor

Technology	Magnetic
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Accuracy (INL)	$\pm 0.0878^\circ$ (≤ 12 bit)
Duty Cycle	$180^\circ \pm 27^\circ$ (Speed > 100RPM)
Phase Angle	$90^\circ \pm 14^\circ$ (Speed > 100RPM)
Sense Signal (Default)	Clockwise shaft movement (front view on shaft)

Environmental Specifications

Protection Class (Shaft)	IP65
Protection Class (Housing)	IP65
Humidity	98% RH, no condensation
Min Temperature	-30 °C fixed (-22 °F), -5 °C flexible (+23 °F)
Max Temperature	+80 °C (+176 °F)

Mechanical Data

Housing Material	Steel
Housing Coating	Zinc Plated
Flange Type	Clamp, $\varnothing$ 40 mm
Flange Material	Aluminum
Shaft Type	Solid, Single Flat, Length = 15 mm
Shaft Diameter	$\varnothing$ 6 mm (0.24")
Shaft Material	Stainless Steel V2A (1.4305, 303)
Max. Shaft Load	Axial 40 N, Radial 110 N
Rotor Inertia	$\leq 30 \text{ gcm}^2$ [$\leq 0.17 \text{ oz-in}^2$]

Friction Torque	≤ 3 Ncm @ 20 °C (4.2 oz-in @ 68 °F)
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Max. Permissible Mechanical Speed	≤ 12000 1/min
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Shock Resistance	≤ 100 g (half sine 6 ms, EN 60068-2-27)
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Permanent Shock Resistance	≤ 10 g (half sine 16 ms, EN 60068-2-29)
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Vibration Resistance	≤ 10 g (10 Hz - 1000 Hz, EN 60068-2-6)
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Length	33 mm (1.30")
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Weight	480 g (1.06 lb)
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Minimum Mechanical Lifetime(10 ⁸ revolutions with Fa/Fr)	430 (20N/40N), 150 (40N/60N), 100 (40N/80N), 55 (40N/110N)
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Electrical Connection

Connection Orientation	Axial/Radial
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Connection Type	Cable / Connector
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Connector	Cable 2 m
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Cable Length	2 m [79"]
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Wire Cross Section	0.14 mm ² / AWG 26
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Material / Type	PVC
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Cable Diameter	6 mm (0.24 in)
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Minimum Bend Radius	46 mm (1.81") fixed, 61 mm (2.4") flexing
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Certification

Approval

CE + cULus

Product Life Cycle

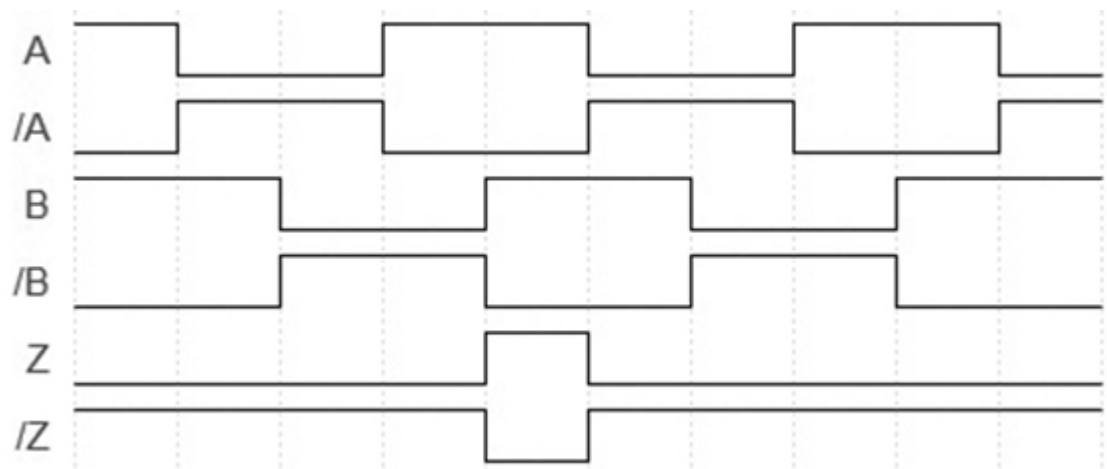
Product Life Cycle

Exiting

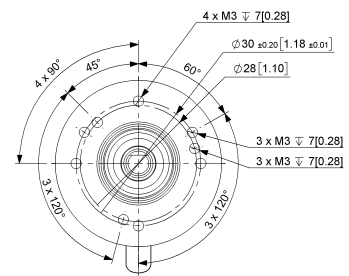
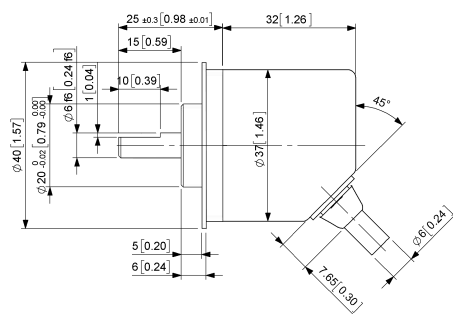
Connection Plan

Signal	Color
A	Green
/A	Yellow
B	Gray
/B	Pink
Z	Blue
/Z	Red
Power Supply	Brown
GND	White
Shielding	Shield

Pulse Diagram



Dimensional Drawing

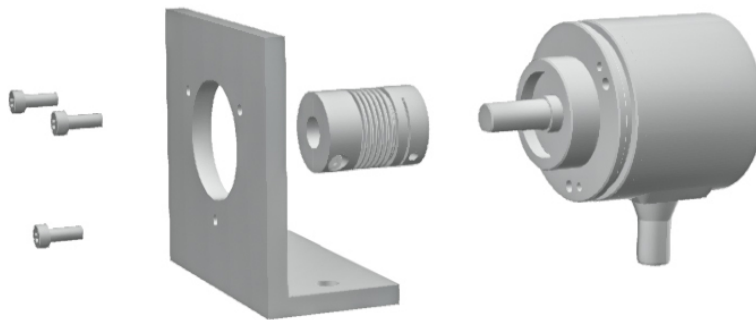


Picture Cable Exit

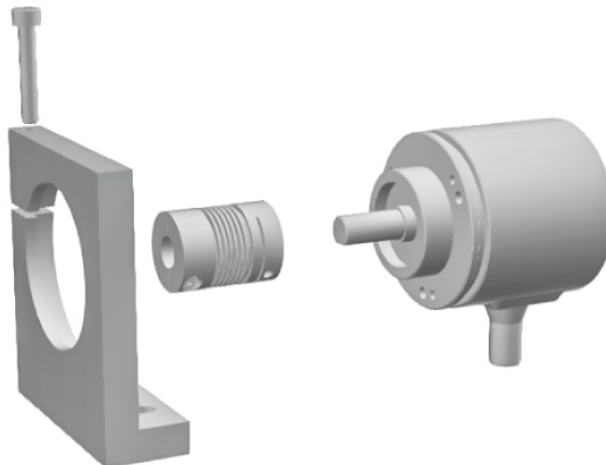


Picture Flange Mounting

1.



2.



Online Datasheet

