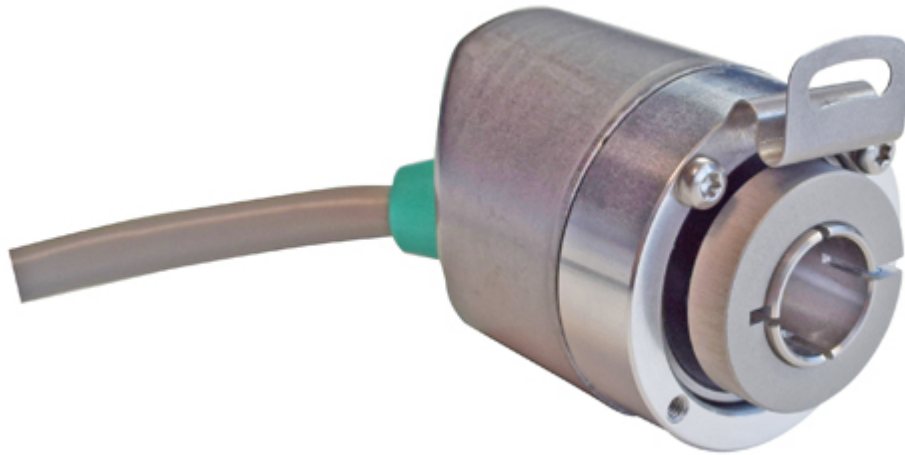




UTD-IPH00-XXXXX-V8B0-2TW



Interface

Interface	Programmable Incremental
Programming Functions	PPR (1-32768), Output, Counting Direction
Programmable Output	Push-Pull (HTL) or RS422 (TTL)
Configuration Tool	Configuration Tool: UBIFAST Configuration Tool Version 1.6.10 or newer. If PPR above 16384 is required, this and all additional setups must be adjusted during production.

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
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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	≤60 mA @ 5V DC, ≤30 mA @ 10V DC, ≤25 mA @ 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
Accuracy (INL)	$\pm 0.0878^\circ$ (≤ 12 bit)
Duty Cycle	$180^\circ \pm 12^\circ$ (Speed > 100RPM)
Phase Angle	$90^\circ \pm 6^\circ$ (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	Blind Hollow, $\varnothing$ 36 mm / $\varnothing$ 42 mm
Flange Material	Aluminum
Shaft Type	Blind Hollow, Depth = 18 mm
Shaft Diameter	$\varnothing$ 8 mm (0.31")
Shaft Material	Stainless Steel V2A (1.4305, 303)
Friction Torque	≤ 3 Ncm @ 20 °C (4.2 oz-in @ 68 °F)

Max. Permissible Mechanical Speed	≤ 12000 1/min
Shock Resistance	≤ 100 g (half sine 6 ms, EN 60068-2-27)
Permanent Shock Resistance	≤ 10 g (half sine 16 ms, EN 60068-2-29)
Vibration Resistance	≤ 10 g (10 Hz – 1000 Hz, EN 60068-2-6)
Length	50,2 mm (1.98")
Weight	405 g (0.89 lb)
Maximum Axial / Radial Misalignment	Static ± 0.3 mm / ± 0.5 mm; Dynamic ± 0.1 mm / ± 0.2 mm

Electrical Connection

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

Certification

Approval	CE + cULus
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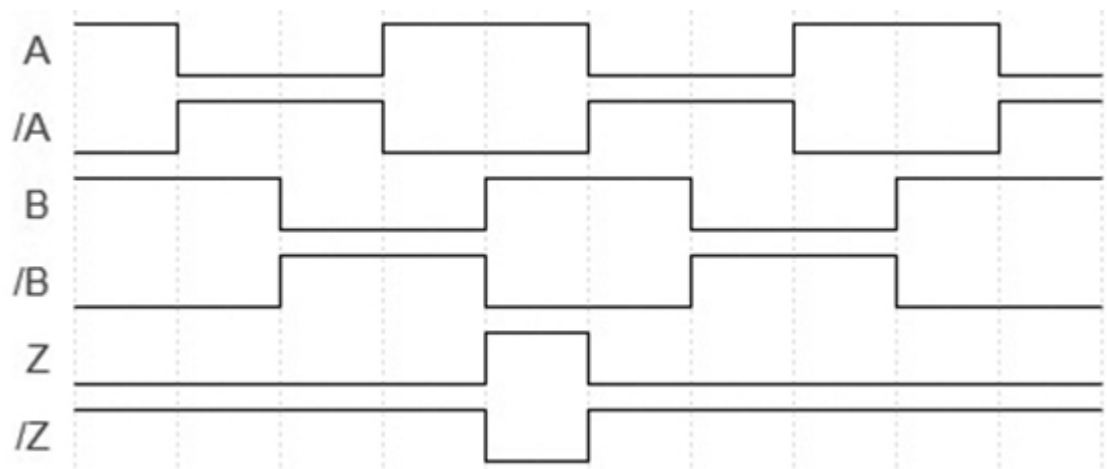
Product Life Cycle

Product Life Cycle	Established
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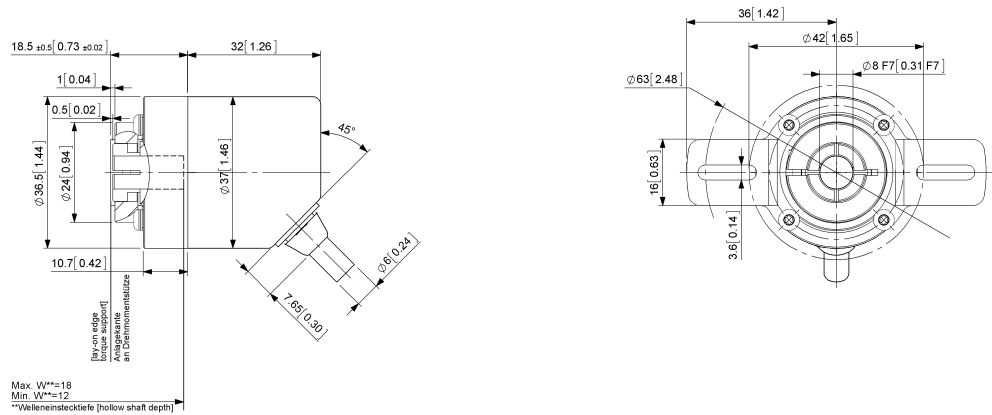
Connection Plan

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



Online Datasheet

