



UTD-IPT00-XXXXX-HCS0-2RW



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	RS 422 (TTL)
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)	IP66/IP67
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	Wet coating (RAL 9006 White Aluminium) + Cathodic corrosion protection (>720 h salt spray resistance)
Flange Type	Blind Hollow, $\varnothing$ 58 mm (H)
Flange Material	Aluminum
Shaft Type	Blind Hollow, Depth = 28 mm
Shaft Diameter	$\varnothing$ 12 mm (0.47")
Shaft Material	Stainless Steel V2A (1.4305, 303)

Rotor Inertia	$\leq 30 \text{ gcm}^2 [\leq 0.17 \text{ oz-in}^2]$
Friction Torque	$\leq 3 \text{ Ncm @ } 20 \text{ }^\circ\text{C} (4.2 \text{ oz-in @ } 68 \text{ }^\circ\text{F})$
Max. Permissible Mechanical Speed	$\leq 12000 \text{ 1/min}$
Shock Resistance	$\leq 100 \text{ g (half sine 6 ms, EN 60068-2-27)}$
Permanent Shock Resistance	$\leq 10 \text{ g (half sine 16 ms, EN 60068-2-29)}$
Vibration Resistance	$\leq 10 \text{ g (10 Hz - 1000 Hz, EN 60068-2-6)}$
Length	71,2 mm (2.80")
Weight	720 g (1.59 lb)
Maximum Axial / Radial Misalignment	Static $\pm 0.3 \text{ mm} / \pm 0.5 \text{ mm}$; Dynamic $\pm 0.1 \text{ mm} / \pm 0.2 \text{ mm}$

Electrical Connection

Connection Orientation	Radial
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
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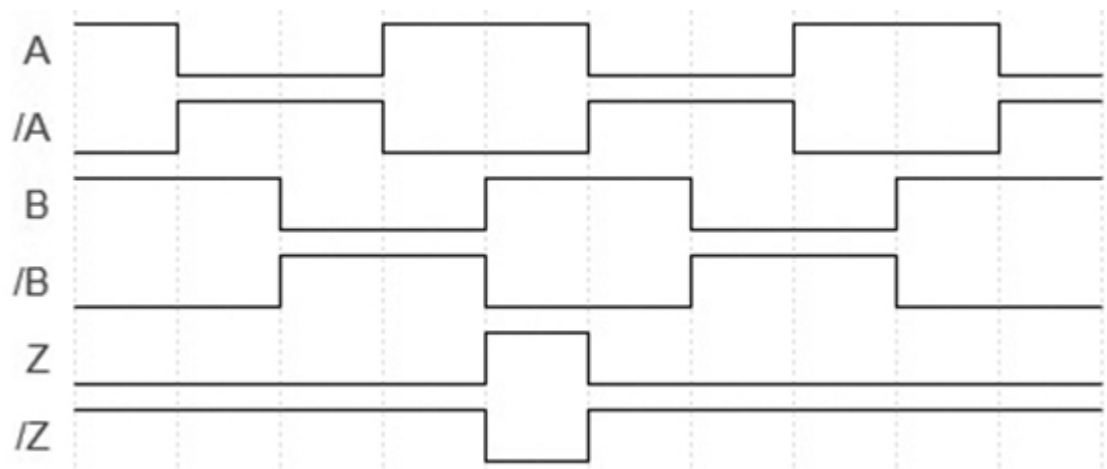
Product Life Cycle

Product Life Cycle	New
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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



Technical drawing of the DREHmoment 1000, showing side and front views with dimensions in mm and inches.

Side View Dimensions:

- Overall length: 28.6 [1.13] ± 0.02
- Distance from flange face to centerline: 43.2 [1.70]
- Flange thickness: 0.5 [0.02]
- Flange outer diameter: 2.1 [0.08]
- Flange inner diameter: $\phi 30$ [1.18]
- Flange bore diameter: $\phi 58.5$ [2.30]
- Distance from flange face to mounting hole centerline: 15.5 [0.61]
- Distance from mounting hole centerline to shaft centerline: 48 [1.89]
- Shaft diameter: 21 [0.83]
- Shaft length: 21 [0.83]
- Minimum shaft length: Min. = 6.5 [0.26]
- Maximum shaft length: Max. = 9 [0.35]

Front View Dimensions:

- Overall diameter: $\phi 72$ [2.83]
- Flange outer diameter: $\phi 63$ [2.48]
- Flange bore diameter: $\phi 12$ F7 [0.47 F7]
- Flange thickness: 20 [0.79]
- Flange outer diameter: $\phi 3.2$ [0.12]
- Flange angle: 20°
- Distance from flange face to shaft centerline: 26 [1.02]

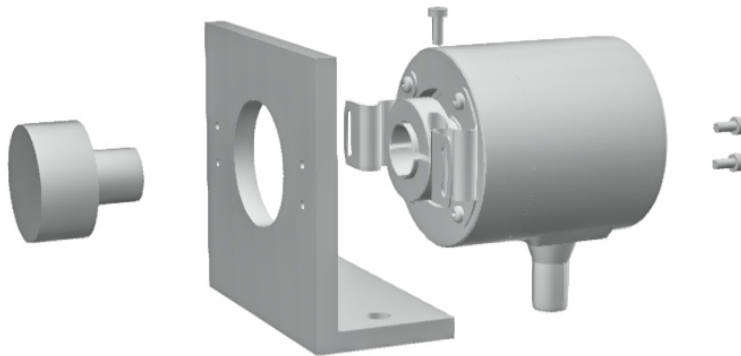
Notes:

- Max. W**=28
- Min. W**=20
- **Welleneinstecktiefe (hollow shaft depth)

Picture Cable Exit

 Picture Cable Exit

Picture Flange Mounting



Online Datasheet

