



UCE-IPT00-XXXXX-F10S-HFG



Product Description

POSITAL IXARC incremental Zone 1 & 21 (Oil+Gas) encoder: RS 422 (TTL) output, Clamp, $\varnothing$ 78 mm, ATEX, $\varnothing$ 10 mm (0.39") shaft and IP67 protection class.

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	RS 422 (TTL)
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Output Voltage High Level Push-Pull (HTL)	> 4 V @ 4.75-9 V Supply Voltage > V-3 V @ 9-30 V Supply Voltage
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Output Voltage Low Level Push-Pull (HTL)	< 0.5 V
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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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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
Current Consumption	$\leq 140\text{mA}$ @ 5V DC, $\leq 70\text{mA}$ @ 10V DC, $\leq 40\text{mA}$ @ 24V DC
Power Consumption	$\leq 1.0\text{ W}$
Start-Up Time	$< 1\text{ s}$
Min. Load Resistance	120 Ω
Reverse Polarity Protection	Yes
Short Circuit Protection	Yes
EMC: Emitted Interference	DIN EN 61000-6-4
EMC: Noise Immunity	DIN EN 61000-6-2
MTTF	280 years @ 40 °C

SENSOR



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

ENVIRONMENTAL SPECIFICATIONS



Protection Class (Shaft)	IP66/IP67
Protection Class (Housing)	IP66/IP67
Min Temperature	-40 °C (-40 °F)
Max Temperature	+70 °C (+158 °F)
Humidity	98% RH, no condensation

MECHANICAL DATA



Connection Cap Material	Aluminium
Housing Material	Aluminum
Housing Coating	Eloxide
Flange Type	Clamp, ø 78 mm, ATEX
Flange Material	Aluminum
Shaft Type	Solid, Single Flat, Length = 20 mm
Shaft Diameter	ø 10 mm (0.39")
Max. Shaft Load	Axial 60 N, Radial 80 N
Rotor Inertia	$\leq 35 \text{ gcm}^2$ [$\leq 0.2 \text{ oz-in}^2$]
Friction Torque	$\leq 5 \text{ Ncm}$ @ 20 °C, (7.1 oz-in @ 68 °F)
Max. Permissible Mechanical Speed	$\leq 3000 \text{ 1/min}$
Shock Resistance	$\leq 100 \text{ g}$ (half sine 11 ms, EN 60068-2-27)
Vibration Resistance	$\leq 10 \text{ g}$ (10 Hz - 2000 Hz, EN 60068-2-6)
Length	150 mm (5.91")
Weight	1200 g (2.65 lb)

ELECTRICAL CONNECTION



Connection Orientation	Axial
Connection Type	2 x Blind Plug, Axial

CERTIFICATION



Approval

CE + ATEX Zone 1 & 21 (Oil+Gas)

PRODUCT LIFE CYCLE



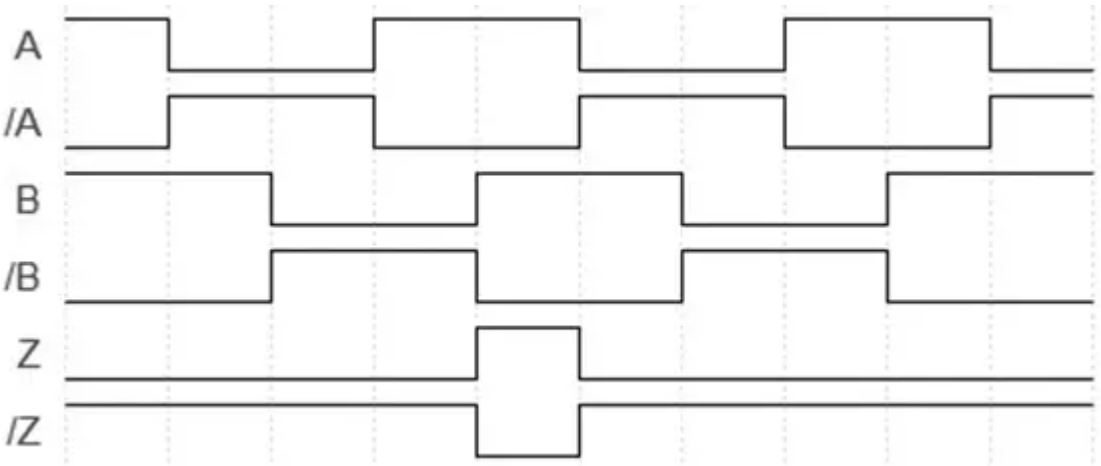
Product Life Cycle

New

Connection Plan

Signal	Pin Number
GND	1
Power Supply	2
A	3
/A	4
B	5
/B	6
Z	7
/Z	8

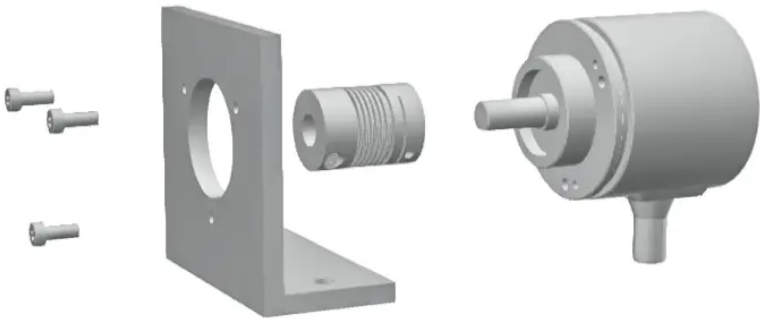
Pulse Diagram



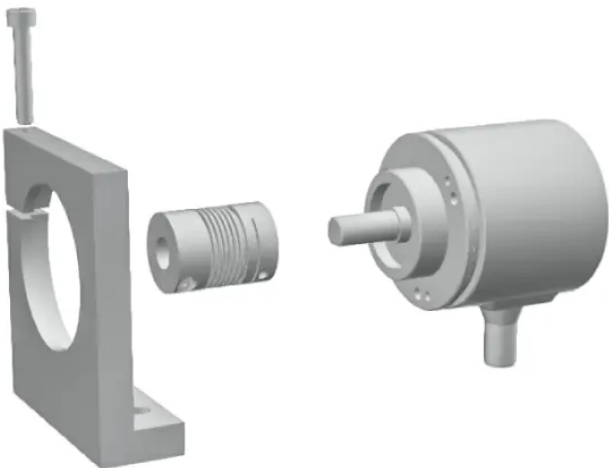
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Picture Flange Mounting

1.



2.



Online Datasheet

