



## LINARIX Linear Sensor

**LU0-IPT00-03333-7W00-PRQ**



### General Data

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Supply Voltage	4.75 - 30 VDC
Power Consumption	≤ 1.0 W
Turn On Time	< 1 s
Operating Temperature	-20 °C (-4 °F) - +80 °C (+176 °F)
Weight	985 g (2.17 lb)
Protection Class (Encoder)	IP64 / IP65
EMC: Emitted Interference	DIN EN 61000-6-4
EMC: Noise Immunity	DIN EN 61000-6-2

#### Mechanical Data

Max. Measurement Length	7.50 m (24.61')
Length per Revolution	333.3 mm
Wire Material	Coated Polyamide Stainless Steel
Wire Diameter	0.45 mm
Encoder Housing Material	Steel
Draw Wire Housing Material	Plastic
Max. Wire Acceleration	1.5 g
Max. Extension Force	13.0 N
Min. Retraction Force	7.0 N

Data Sheet

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Actuation Lifetime	0.5 mio Cycles (Estimated based on ideal conditions)
Wire Mounting	Wireclip
Max. Wire Exit Angle	±3°

### Sensor Data

Technology	Magnetic (≤ 0.09°)
Accuracy	±0.05 % FSO
Repeatability	±0.01 % FSO
Resolution [Encoder - Singleturn]	Incremental
Approx. Linear Resolution	0.1 mm/pulse (Default)
Pulses per Revolution	03333
Duty Cycle	180° ± 27° (Speed > 100RPM)
Phase Angle	90° ± 14° (Speed > 100RPM)

### Interface

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

### Outputs

Output Driver	RS 422 (TTL)
Current Consumption	≤140mA @ 5V DC, ≤70mA @ 10V DC, ≤40mA @ 24V DC
Output Voltage High Level Push-Pull (HTL)	> 4 V @ 4,75-9 V Supply Voltage; > V-3 V @ 9-30 V Supply
Output Voltage Low Level Push-Pull (HTL)	< 0.5 V
Output Voltage High Level RS422 (TTL)	> 4 V
Output Voltage Low Level RS422 (TTL)	< 0.5 V
Min. Load Resistance	120 Ω
Reverse Polarity Protection	Yes
Short Circuit Protection	Yes
MTTF	280 years @ 40 °C

### Electrical Connection

Connection Orientation	Radial
Connection Orientation (w.r.t Draw Wire)	Radial 0 / Axial

Data Sheet

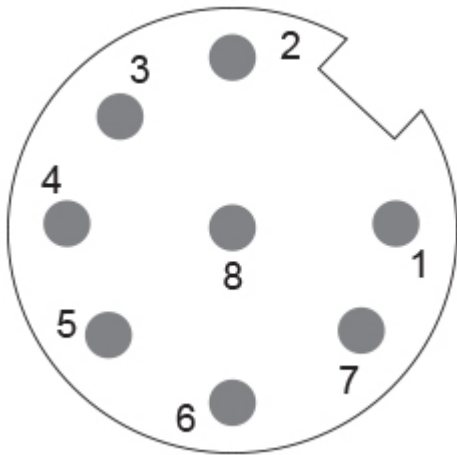
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Connector	M12, Male, 8 pin, a coded
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### Product Life Cycle

Product Life Cycle	New
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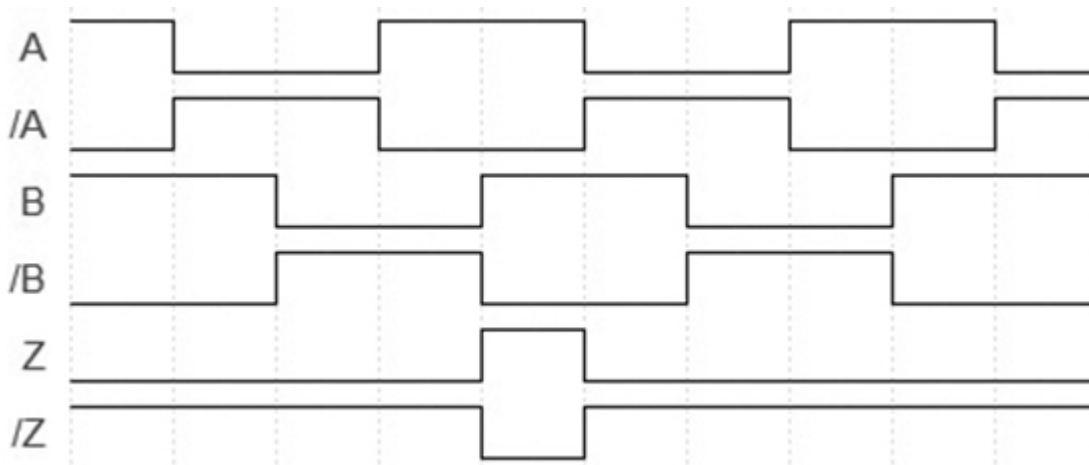


### Connection Plan

SIGNAL	PIN NUMBER
A	3
/A	4
B	5
/B	6
Z	7
/Z	8
Power Supply	2
GND	1
Shielding	Connector housing

Connector-View on Encoder

### Pulse Diagram



## Dimensional Drawing

### [2D Drawing](#)

#### Accessories

##### Connectors & Cables

10m PUR Cable, 8pin, A-Coded, f  
POS M12 8pin-A Female+5m PUR Cable  
POS M12 8pin-A Female+2m PUR Cable  
POS M12 8pin-A Female+10m PUR Cable  
M12, 8pin A-Coded, Female

More

##### Displays

AP20-00 Counter  
AP20-D0 Counter (4 dig. o/p)  
AP20-0A Counter (analog o/p)  
AP20-DA Counter (4 dig. + analog o/p)  
DiMod Counter (Relay o/p)

More

##### Configuration/Programming Tools

UBIFAST Configuration Tool

**Got questions? Need an individual solution? We are here to help!**



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All dimension in [inch] mm. Encoder dimensions may vary depending on electrical interface and connector. This drawing and the information contained is for general presentation purposes only. Please refer to the "Download" section for detailed technical drawings. © FRABA B.V., All rights reserved. We do not assume responsibility for technical inaccuracies or omissions. Specifications are subject to change without notice.