

## LINARIX Linear Sensor



### General Data

Supply Voltage	4.5 - 30 VDC (On power supplies comply with EN 50178)
Power Consumption	≤ 0.25 W
Turn On Time	< 250 ms
Operating Temperature	-40 °C (-40 °F) - +85 °C (+185 °F)
Weight	915 g (2.02 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	6.0 m
Wire Drum Circumference	200 mm
Wire Material	Stainless Steel
Wire Diameter	0.54 mm
Encoder Housing Material	Steel
Draw Wire Housing Material	Aluminum / plastic
Max. Speed of Wire Displacement	0.3 m / s
Max. Wire Acceleration	2.4 g
Max. Extension Force	8.0 N
Min. Retraction Force	3.0 N
Actuation Lifetime	Not Available
Wire Mounting	M Thread

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**Sensor Data**

Technology	Magnetic ( $\leq 0.36^\circ$ )
Accuracy	$\pm 0.006$ % FSO
Repeatability	$\pm 0.003$ % FSO
Resolution [Encoder - Singleturn]	12 bit
Resolution [Encoder - Multiturn]	12 bit
Approx. Linear Resolution	48.8 $\mu\text{m}$
Output Code	Binary

**Interface Data**

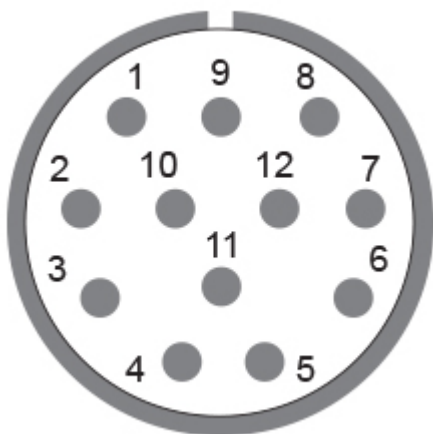
Communication Interface	SSI with Preset
Manual Functions	Counting direction via cable or connector
Cycle Time Interface	> 25 $\mu\text{s}$

**Electrical Data**

Clock Input	RS 422, via Optocoupler
Clock frequency	100 kHz - 2 MHz
Reverse Polarity Protection	Yes
Short Circuit Protection	Yes
MTTF	380.6 years @ 40 °C

**Electrical Connection**

Connection Orientation	Radial
Connection Orientation (w.r.t Draw Wire)	Radial 9
Connector	M23, Male, 12 pin



**Connection Plan**

SIGNAL	PIN NUMBER
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Power Supply	11
GND	12
Data+	3
Data-	4
Clock+	2
Clock-	1
Preset	9
DIR	8
Not Connected	5
Not Connected	6
Not Connected	7
Not Connected	10

Connector-View on Encoder  
**Dimensional Drawing**

