LU0-CA01B-1212-2P80-PRW

Product Description

POSITAL LINARIX CANopen linear sensors, design: Draw Wire Enclosure, Machined Metal, Cylindrical Housing and 12 bit (4096 Steps) resolution.

General Data

Supply Voltage	9 – 30 VDC
Power Consumption	≤ 1.2 W
Min Temperature	-20 °C (-4 °F)
Max Temperature	+80 °C (+176 °F)
Weight	515 g (1.14 lb)
Protection Class	IP64 / IP65
EMC: Emitted Interference	DIN EN 61000-6-4
EMC: Noise Immunity	DIN EN 61000-6-2

Mechanical Data

Measuring Length	1.90 m (6.23')
Mean Length per Revolution	150 mm
Wire Material	Coated Polyamide Stainless Steel
Wire Diameter	0.45 mm

Housing Material	Steel
Draw Wire Housing Material	Aluminum
Max. Speed of Wire Displacement	2.0 m / s
Max. Angular Acceleration	12.0 g
Max Extension Force	5.0 N
Min Retraction Force	3.5 N
Actuation Lifetime	1.0 mio Cycles (Estimated based on ideal conditions)
Wire Mounting	Eyelet
Max. Wire Exit Angle	±3°

Sensor Data

Technology	Magnetic (≤ 0.09°)
Accuracy	±0.02 % Full Scale Output
Repeatability	±0.006 % Full Scale Output
Resolution Singleturn	12 bit
Resolution Multiturn	12 bit
Approx. Linear Resolution	36.6 µm
Code	Binary

Interface

Interface	CANopen

Profile	DS-406
Programming Functions	Resolution, preset, 2 limit switches, 8 CAMS, baud rate, CAN-Identifier, bootloader, transmission modes: polled, cyclic, sync
Transmission Rate	min. 20 kBaud, max. 1 MBaud
Interface Cycle Time	≥ 1 ms

Outputs

Output Driver	Transceiver (ISO 11898), Galvanically Isolated by Opto-Couplers

Electrical Data

Current Consumption	≤ 70 mA @ 10 V DC, ≤ 50 mA @ 24 V DC
Reverse Polarity Protection	Yes
Short Circuit Protection	Yes
MTTF	240 years @ 40 °C

Electrical Connection

Connection Orientation	Radial
Connection Orientation (w.r.t Draw Wire)	Radial 8
Connection Type	Cable / Connector
Connector 1	M12, Female, 5 pin, a coded
Connector 2	M12, Male, 5 pin, a coded (LED)

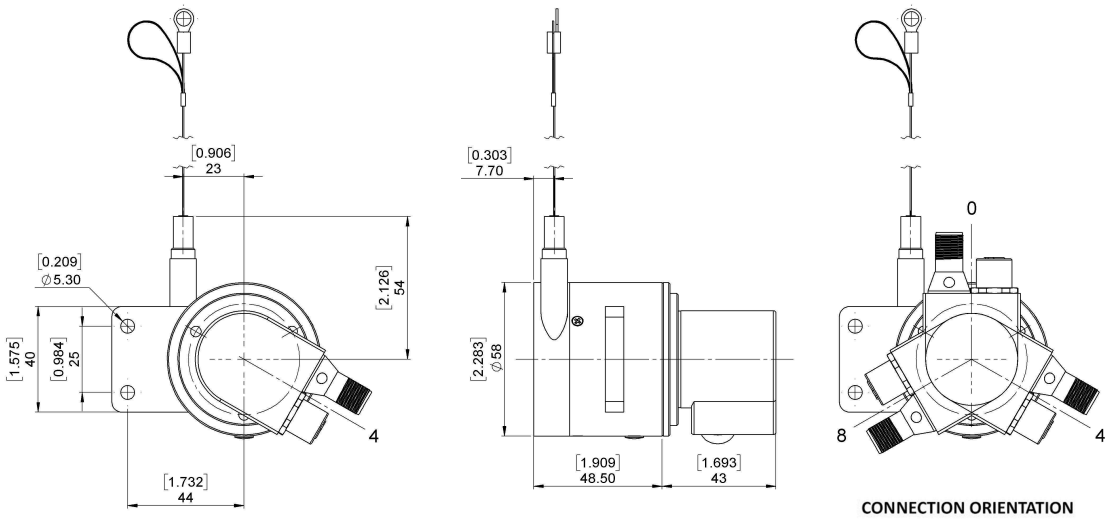
Product Life Cycle

Product Life Cycle	Established

Connection Plan

Signal	Connector	Pin Number
Power Supply	1	2
GND	1	3
CAN High	1	4
CAN Low	1	5
CAN GND	1	1
Power Supply	2	2
GND	2	3
CAN High	2	4
CAN Low	2	5
CAN GND	2	1

Dimensional Drawing



Online Datasheet