Draw Wire Encoder (0.6m)



In complex mechanical systems, it is often very difficult to accurately measure the movement of a single part, particularly if it has several degrees of freedom. The draw wire encoder is a versatile solution to this very problem; it can be attached to a part using an M5 screw or fastened to the end with a zip tie, and the encoder itself has a pair of M4 screw threads on the back for easy installation.



When the wire is pulled out, the sensor produces a quadrature signal to describe the length of wire exposed. The reel is spring loaded, so it will retract when there is no tension in the wire. Multiple draw wire sensors could be used to track the position in more than one dimension.

Product Specifications

Encoder Properties

Manufacturer Part NumberRLC40D-600-D1F-1MOutput Circuit TypePush-PullWire Resolution100 ?¹₄m/cycWire Pull Length600 mmElectrical PropertiesSupply Voltage Max5 V DCCurrent Consumption Max60 mAPhysical PropertiesWire Load Maximum255 g

Wire Pull Speed Max1 m/sWeight255 gOperating Temperature Min -30 ?°COperating Temperature Max 90 ?°CScrew Thread SizeM4IP RatingIP54