- 100 to 10,000 Cycles Per Revolution (CPR)
- 2 Channel Quadrature TTL Squarewave Outputs
- Operating Temperature of $-40^{\circ}$ to $+100^{\circ} \mathrm{C}$
- Powered from a +5VDC Power Supply
- Positive Latching Connector
- Allows for $\pm 0.010$ " Axial Shaft Play
- RoHS Compliant and REACH Certified


The ENC-A6SI is a Single-Ended Optical Kit Encoder with Index designed for quick and simple assembly that fits any shaft diameters from 0.079 " to 1 ". It fits to any shaft length over 0.445 " diameter when equipped with the Hole in Cover option. However, the default required shaft length is from 0.445 " to 0.570 " and the Cover Extension required shaft length is 0.445 " to 0.750 ". The ENC-A6SI module is designed to detect the rotary position with a code wheel. The ENC-A6SI can be attached to any existing shaft to provide digital feedback information. This Single-Ended Encoder consists of a highly accurate aligned solid state light source and monolithic phased array sensor, when combined together they provide a system extremely tolerant to mechanical misalignments. The ENC-A6SI Single-Ended Optical Kit Encoder has a molded, rugged 20\% glass filled polycarbonate that utilizes a 5-Pin latching connector.

(1) With Cover Extension "E" must choose bore size 079 (2mm) to 394 (10mm)
(2) With Base Option " 3 " must choose bore size 079 ( 2 mm ) to 394 ( 10 mm )

L011733


MATES TO CON-FC5
Note: Required shaft length is $0.445-0.570$ inches.

## E-OPTION COVER <br> (EXTENSION FOR SHAFT

## LENGTHS UP TO . 750 [19.05])



E-Option provides a cylindrical extension cover for longer shafts of up to 0.750 ". The required shaft length is $0.445^{\prime \prime}$ to 0.750 ".

## H-OPTION COVER

(HOLE FOR SHAFT LENGTHS OVER . 750 [19.05])

$\mathrm{H}=.438$ [11.13] FOR SHAFT SIZES $\leq \varnothing .394$ [10]
$\mathrm{H}=1.047$ [26.59] FOR SHAFT SIZES $>\varnothing .394$ [10]

H-Option adds a hole to the cover for the shaft to pass through. For shafts of 2 mm to 10 mm , a 0.438 " diameter hole is supplied. For shafts of 12 mm to 1.000 ", a $1.047^{\prime \prime}$ diameter hole is supplied.


3-OPTION BASE
(. 078 HOLES BECOME .125)

M-OPTION BASE
(MOUNTING PLATE)
$3 \times \varnothing .125$ [3.18]



FOR SHAFTS > $\varnothing .394$ [10]

REQUIRES AN ADDITIONAL . 125 [3.18] SHAFT LENGTH

| Base Options: | Description |
| :---: | :--- |
| 3- Option | 3-Option makes three of these hole diameters .125" |
| M - Option | M-Option, this adapter plate is for mounting to a 3" <br> diameter bolt circle. |

(Note: Base Mounting Screws are NOT included. \#2-56 or M2.5 \#4-40 screws can be used to mount the base to your mounting surface.)

## SINGLE-ENDED ENCODER PINOUT

| Pin \# | Function |
| :---: | :---: |
| 1 | Ground |
| 2 | Index |
| 3 | Channel A |
| 4 | +5 VDC Input |
| 5 | Channel B |

Note: 5-Pin Single Ended Mating
Connector is Molex Type 50-57-9405


