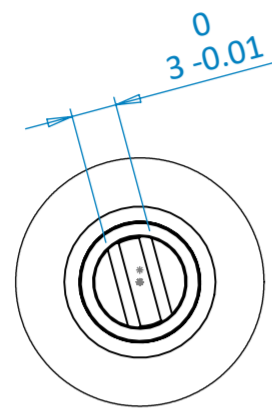
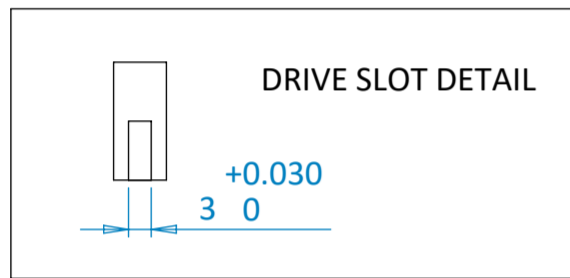


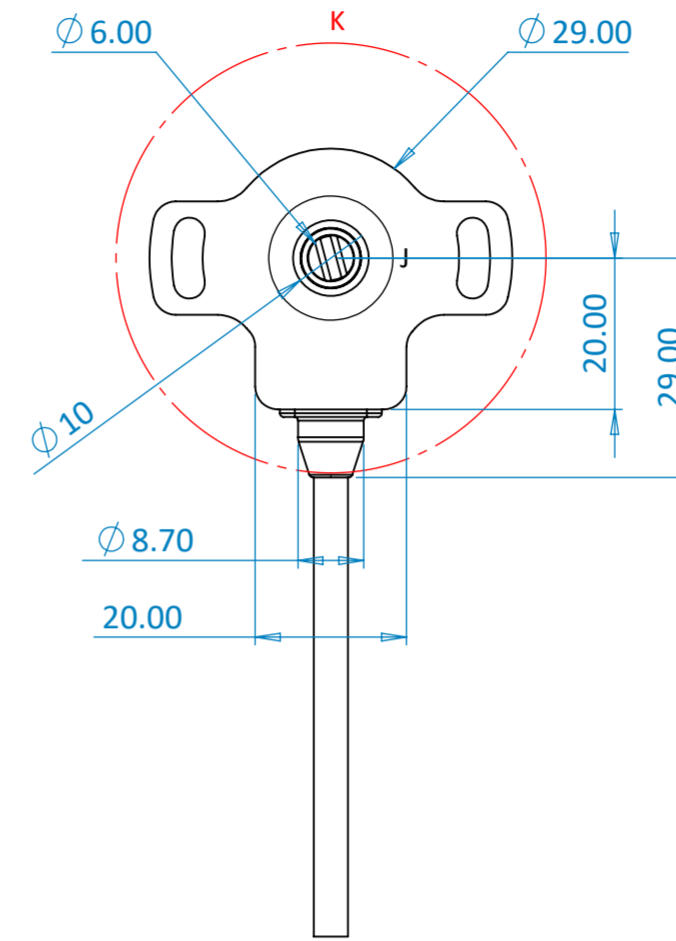
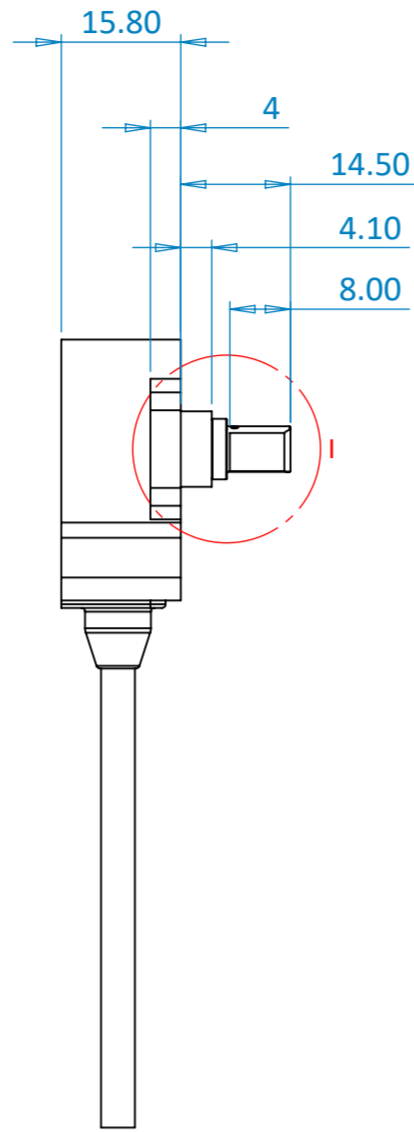
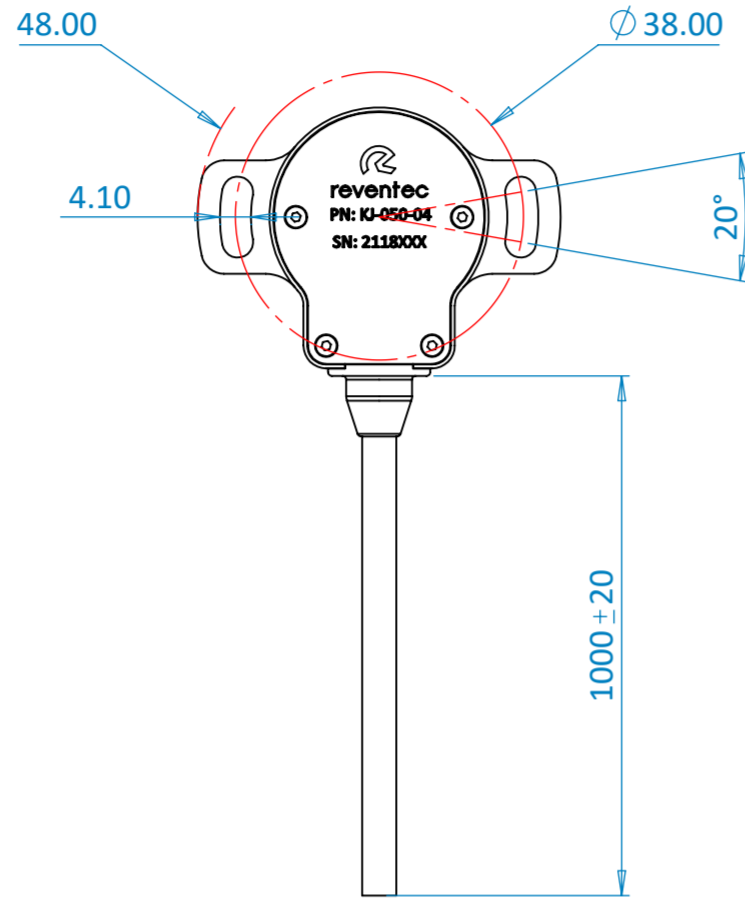
DETAIL I
SCALE 2 : 1



DETAIL J
SCALE 2 : 1

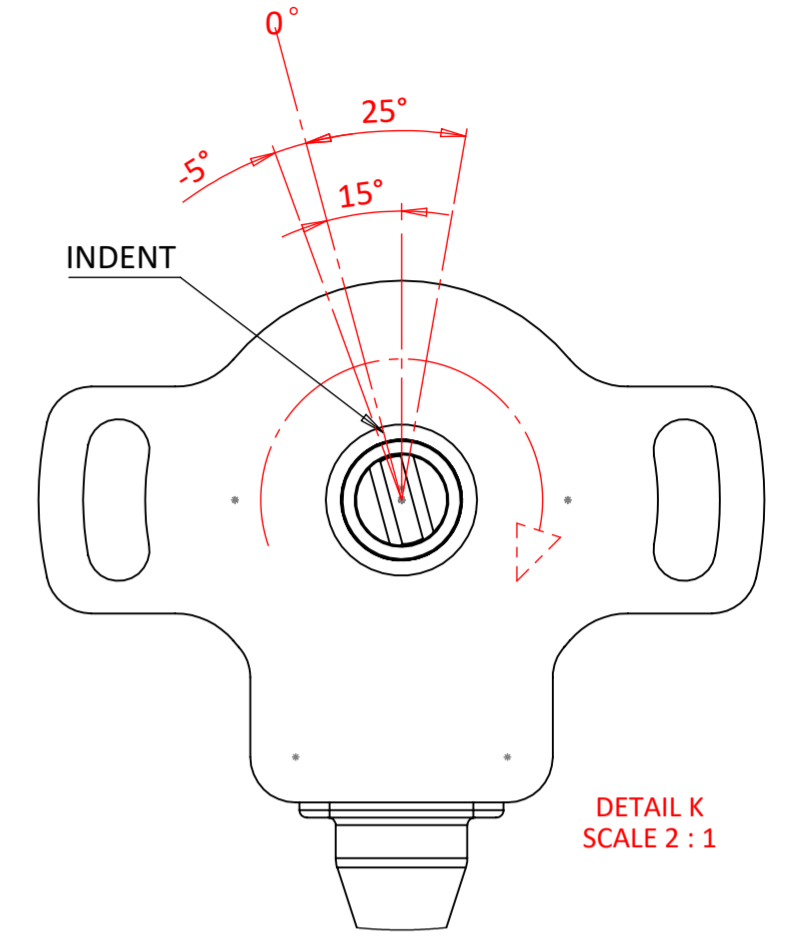


DRIVE SLOT DETAIL



WHEN SHAFT IS IN THIS PEDAL REST POSITION AS SHOWN:
CHANNEL 1 = 1.20V
CHANNEL 2 = 0.60V

NOMINAL
(PEDAL REST)
POSITION



DIRECTION OF TRAVEL TO INCREASE
VOLTAGE (VIEWED FROM REAR OF SENSOR)

DETAIL K
SCALE 2 : 1

Configuration:	Rotary
Sensing Range:	0-30° (configurable see Note 1)
Measurement start position:	As shown on drawing (Shaft -20° to vertical to housing with indent opposite to cable exit)
Supply Voltage:	+5VDC ± 0.25VDC Regulated
Resolution:	12 bit
Update Rate:	5kHz
Output 1:	1.20VDC @ 0° position & 4.40VDC @ +25° position
Output 2:	0.60VDC @ 0° position & 2.20VDC @ +25° position
Supply Current:	nom 25mA per channel @ 5VDC
Reverse Polarity:	Can be connected in reverse for short period without damage.
Sensitivity:	Min. 112mV/Degree (Chan 1)
Termination:	1m flying lead
Wiring:	26 AWG RW-200E
Sensor Dimensions:	Approx. 48mm x 40mm x 16mm (see drawing view)
Housing Material:	Aluminium 6082-T6
Finish:	Anodised red
Mounting:	2 x M4 (see drawing)
Linearity:	+/- 0.4% full scale output
Operating Temperature:	-40°C to 150°C
Storage Temperature:	-40°C to 125°C
Vibration:	10G from 10Hz to 2,000Hz
Shock:	50 G half sine wave with 11 ms duration
Sealing:	IP67
Part Number:	KJ-050-04
Note 1	Sensor supplied with default outputs as specified. However, customers can recalibrate the sensing range between 0-359° and the outputs to a specific range between (min 0.10VDC / max 4.90VDC) if required. To facilitate this there is a USB comms box (Pt. No. 07-003-01) and a GUI (free) available.



ISO VIEW
SCALE: 2:1

WIRING DESIGNATION	
RED	V+ (5V) CHANNEL 1 & 2
BLACK	GND (COMMON)
YELLOW	0.56 - 4.40V SIGNAL (CHANNEL 1)
WHITE	COMMS Tx CHANNEL 1 (TRANSMIT)
GREEN	COMMS Rx CHANNEL 1 (RECEIVE)
ORANGE	0.28 - 2.20V SIGNAL (CHANNEL 2)
GREY	COMMS Tx CHANNEL 2 (TRANSMIT)
VIOLET	COMMS Rx CHANNEL 2 (RECEIVE)

SENSOR CALIBRATION DETAILS	
CHANNEL 1	
SENSOR SHAFT ANGLE	SENSOR VOLTAGE OUTPUT
-5°	0.56V
0°	1.2V
+25°	4.4V

SENSOR CALIBRATION DETAILS	
CHANNEL 2	
SENSOR SHAFT ANGLE	SENSOR VOLTAGE OUTPUT
-5°	0.28V
0°	0.6V
+25°	2.2V

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ±0.05 ANGULAR: ±0.05	FINISH: ANODISED GREEN.	DEBUR AND BREAK SHARP EDGES	REVISION ISSUE	DESCRIPTION	DATE	APPROVED
			02	VOLTAGE OUTPUTS UPDATED	19.10.22	NJM
			03	VOLTAGE OUTPUT POSITIONS UPDATED	19.10.22	NJM
			04	MAX VOLTAGE OUTPUT INCREASED FROM 4V	20.10.22	NJM
DRAWN CHK'D APP'VD MFG	NAME NJM	SIGNATURE	DATE 1.12.21	THIRD ANGLE		
Q.A.	MATERIAL: AL 6082 T6		DWG NO. KJ-050-04		A2	
© DESIGN COPYRIGHT RESERVED Reventec Ltd Unit 20, Reventec Business Centre Luton, Bedfordshire LU1 3JF UK Tel: +44(0)1525 538811 Email: info@reventec.com Website: www.reventec.com			TITLE: Q360 DR ROTARY POSITION SENSOR - BLADE SHAFT - 3mm (INBOARD SENSOR)		SCALE: 1:1 SHEET 1 OF 1	