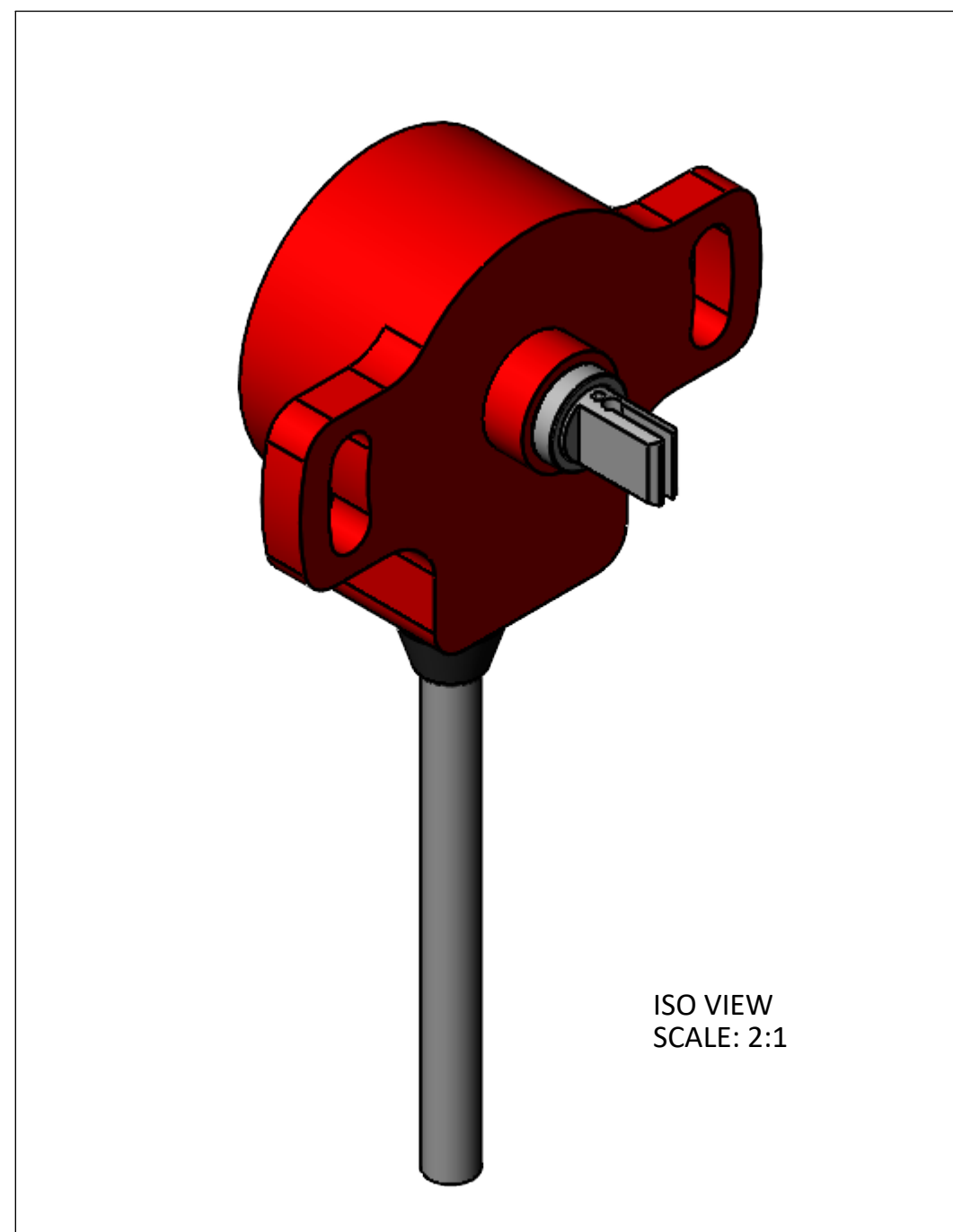




Configuration:	Rotary
Sensing Range:	0-355 ° (configurable see Note 1)
Measurement start position:	As shown on drawing
Supply Voltage:	+5VDC ±0.25VDC Regulated
Resolution:	12 bit
Update Rate:	5kHz
Output 1:	0.50VDC @ 0 ° position & 4.50VDC @ +355 ° position
Output 2:	0.25VDC @ 0 ° position & 2.25VDC @ +355 ° position
Supply Current:	nom 25mA per channel @ 5VDC
Reverse Polarity:	Can be connected in reverse for short period without damage.
Sensitivity:	Min. 11.2mV/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-100-01
Note 1	Sensor supplied with default outputs as specified. However, all sensors can be recalibrated to any desired angular range between sensing range between 0-359° along with customised voltage outputs between (min 0.10VDC / max 4.90VDC) if required. Recalibration can be conducted by the end user or supplied from factory.



WIRING DESIGNATION	
RED	V+ (5V) CHANNEL 1 & 2
BLACK	GND (COMMON)
YELLOW	0.75 -4.55V SIGNAL (CHANNEL 1)
WHITE	COMMS Tx CHANNEL 1 (TRANSMIT)
GREEN	COMMS Rx CHANNEL 1 (RECEIVE)
ORANGE	0.375 - 2.275V 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
0 °	0.50V
+177.5 °	2.50V
+355 °	4.50V

SENSOR CALIBRATION DETAILS	
CHANNEL 2	
SENSOR SHAFT ANGLE	SENSOR VOLTAGE OUTPUT
0°	0.25V
+177.5°	1.25V
+355°	2.25V

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ±0.05 ANGULAR: ±0.05		FINISH: ANODISED RED.		DEBUR AND BREAK SHARP EDGES		REVISION ISSUE		DESCRIPTION		DATE		APPROVED	
						01		INITIAL RELEASE		28.11.22		NJM	
NAME		SIGNATURE		DATE		 THIRD ANGLE		TITLE: Q360 DUAL CHANNEL ROTARY POSITION SENSOR BLADE SHAFT - 3mm					
DRAWN NJM				1.12.21									
CHK'D													
APP'VD													
MFG													
Q.A						MATERIAL:		DWG NO.				A2	
 <div>© DESIGN COPYRIGHT RESERVED Manufactured by: Unit 14, Cooperman Business Centre Gifford Midlothian EH26 3JL Tel: +44(0)131 520221 Email: info@reventor.com www.reventor.com</div>				AL 6082 T6				KJ-100-01					
				WEIGHT:				SCALE: 1:1				SHEET 1 OF 1	