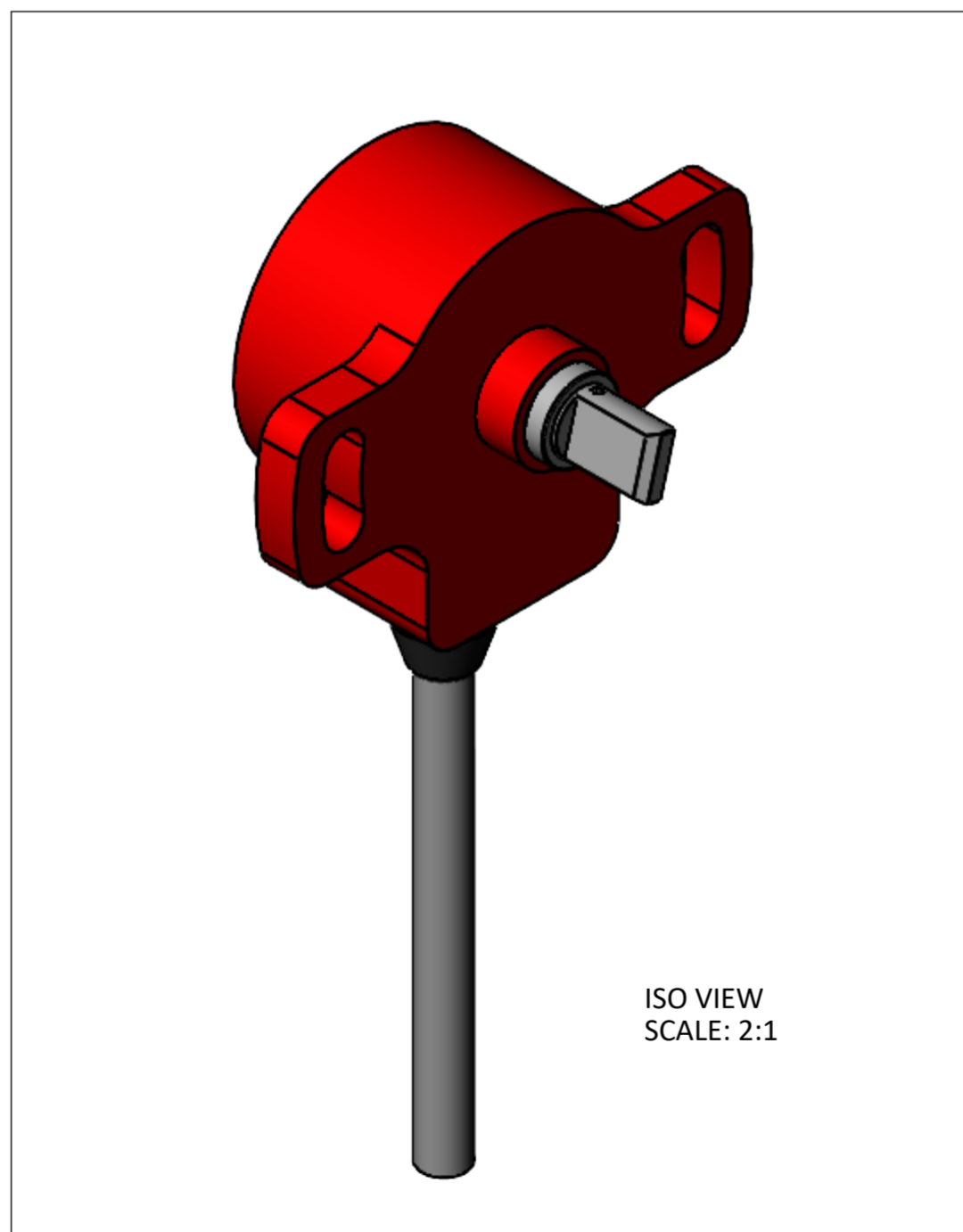


Configuration:	Rotary
Sensing Range:	0-30° (configurable see Note 1)
Measurement start position:	As shown on drawing (Shaft -20° to vertical to housing with indent opposite to cable exit)
Supply Voltage:	+5VDC ±0.25VDC Regulated
Resolution:	12 bit
Update Rate:	5kHz
Output 1:	1.20VDC @ 0° position & 4.40VDC @ +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-030-05
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.



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 RED. DEBUR AND BREAK SHARP EDGES.

REVISION	ISSUE	DESCRIPTION	DATE	APPROVED
03		CALIBRATED ANGLES & OUTPUTS UPDATED.	19.10.22	NJM
04		VOLTAGE OUTPUT POSITIONS UPDATED.	19.10.22	NJM
05		MAX VOLTAGE OUTPUT INCREASED FROM 4.0V	20.10.22	NJM

TITLE: Q360 DR ROTARY POSITION SENSOR - BLADE SHAFT - 3mm (OUTBOARD SENSOR)

NAME: NJM, SIGNATURE: [Signature], DATE: 1.12.21

MATERIAL: AL 6082 T6

DWG NO.: KJ-030-05

SCALE: 1:1, SHEET 1 OF 1