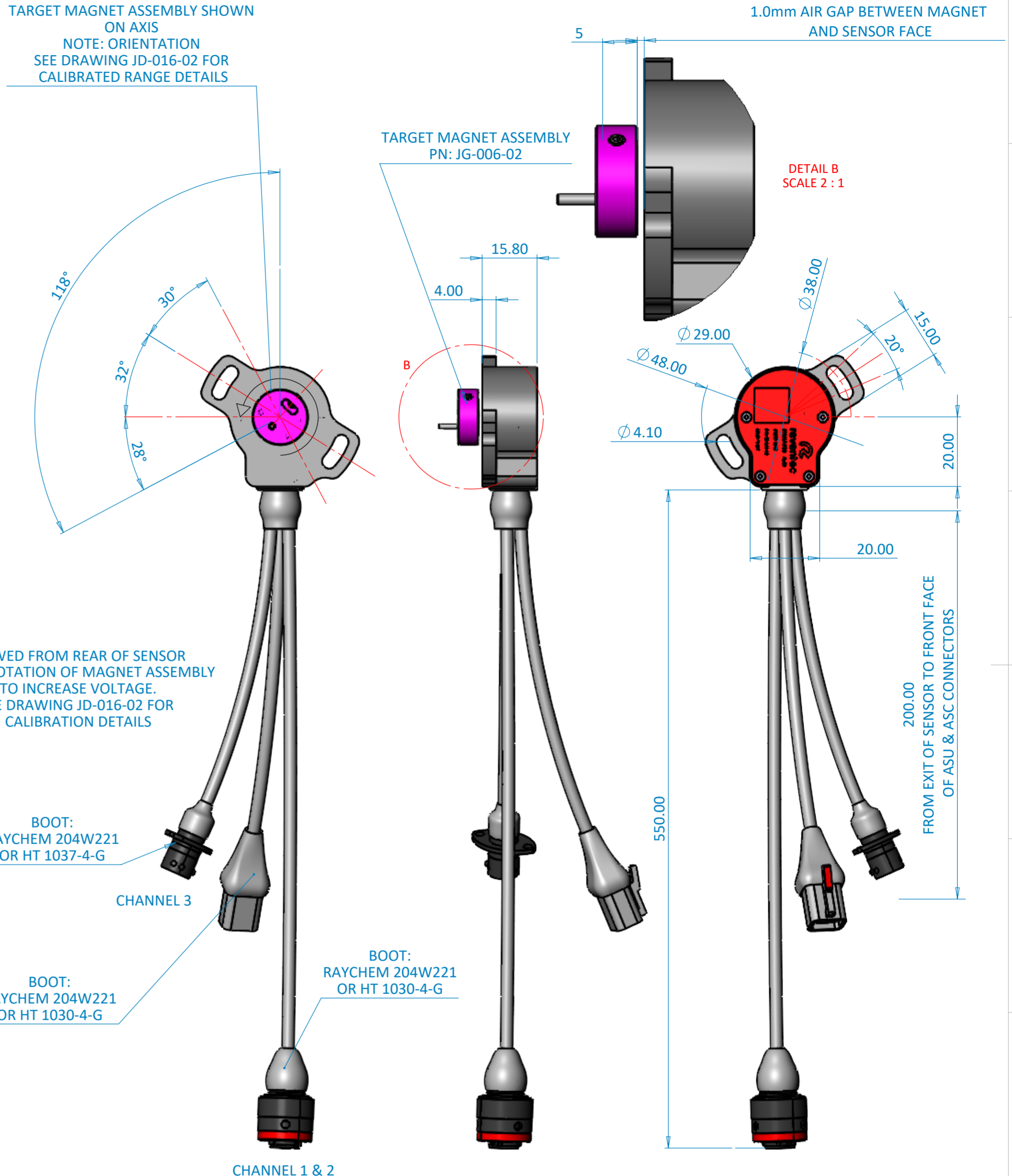


WIRING DEFINITION						
CONNECTOR TYPE	CONNECTOR PIN No.	DESIGNATION	COMMENTS	WIRE COLOUR	PCB	
CONNECTOR 1 DEUTSCH AS607-35PN-HE CHAN 1 + 2	PIN 1	V+ 1 (REGULATED 5V)		RED	LOWER PCB	
	PIN 2	GnD 1		BLACK		
	PIN 3	SIGNAL 1 OUT	0.5 - 4.50VDC	YELLOW		
	CONNECTOR 2 DEUTSCH ASU003-03PN CHAN 3	PIN 4	V+ 2 (REGULATED 5V)		GREEN	TOP PCB
		PIN 5	GnD 2		WHITE	
		PIN 6	SIGNAL 2 OUT	0.25-2.25VDC	VIOLET	
CONNECTOR 3 DEUTSCH ASC605-06PN COMMS ONLY	PIN 1	N/C		N/C	LOWER PCB	
	PIN 2	GnD 3		BLACK		
	PIN 3	SIGNAL 3 OUT	0.50 - 4.50VDC	YELLOW		
	CONNECTOR 3 DEUTSCH ASC605-06PN COMMS ONLY	PIN 1	Tx CHAN 1	CONFIGURATION / CALIBRATION ONLY	WHITE	TOP PCB
		PIN 2	Rx CHAN 1	CONFIGURATION / CALIBRATION ONLY	GREEN	
		PIN 3	Tx CHAN 2	CONFIGURATION / CALIBRATION ONLY	VIOLET	
CONNECTOR 3 DEUTSCH ASC605-06PN COMMS ONLY	PIN 4	Rx CHAN 2	CONFIGURATION / CALIBRATION ONLY	BLUE	LOWER PCB	
	PIN 5	Tx CHAN 3	CONFIGURATION / CALIBRATION ONLY	BLACK		
	PIN 6	Rx CHAN 3	CONFIGURATION / CALIBRATION ONLY	RED		

Configuration:	Rotary
Sensing Range:	0-359° (configurable see Note 1)
Calibrated sensing range:	20° (see drawing JD-016-02 for details)
Air Gap:	1mm (See drawing)
Supply Voltage:	+5VDC ±0.25VDC Regulated
Resolution:	12 bit
Update Rate:	5kHz
Output 1:	0.50VDC – 4.50VDC analogue (Configurable see Note 1) AS607-35PN-HE
Output 2:	0.25VDC – 2.25VDC analogue (Configurable see Note 1) AS607-35PN-HE
Output 3:	0.50VDC – 4.50VDC analogue (Configurable see Note 1) ASU003-03PN
Supply Current:	nom 25mA per channel @ 5VDC
Reverse Polarity:	Can be connected in reverse for short period without damage.
Sensitivity:	Min. 200mV/Degree
Termination:	See drawing & table above
Wiring:	26 AWG RW-200E
Sensor Dimensions:	Approx. 48mm x 35mm x 16mm (see drawing view)
Housing Material:	Aluminium 6082-T6
Finish:	Anodised Black
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:	JD-040-02
Target magnet:	(Part Number JG-006-02) Refer to Drawing for installation guide.
Note 1	Customers can recalibrate the sensing range between 0-359° and the output to a specific range (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.

VIEWS FROM REAR OF SENSOR
NOTE: ROTATION OF MAGNET ASSEMBLY TO INCREASE VOLTAGE. SEE DRAWING JD-016-02 FOR CALIBRATION DETAILS



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS		FINISH:	ANODISED: BLACK / RED	DEBUR AND BREAK SHARP EDGES	REVISION	ISSUE	DESCRIPTION	DATE	APPROVED
SURFACE FINISH:					01	INITIAL RELEASE		01.03.22	NJM
TOLERANCES:					02	V+ SUPPLY (RED WIRE) REMOVED FROM ASU CONNECTOR		13.5.22	NJM
LINEAR: ±0.05									
ANGULAR: ±0.05									
DRAWN	NAME	SIGNATURE	DATE	TITLE:					
CHK'D	NJM		05.05.20	Q360 TRIPLE CHANNEL 5V 150 °C TMR ROTARY POSITION SENSOR					
APP'VD				DWG NO. JD-040-02					
MFG				SCALE: 1:1 SHEET 1 OF 1					
G.A.				MATERIAL: AL 6082 T6					
© DESIGN COPYRIGHT RESERVED		reventec			A2				
MATERIAL:		AL 6082 T6			WEIGHT:				