



- RED - SUPPLY (+5VDC ± 0.25VDC REGULATED)
- BLACK - GND
- YELLOW - ANALOGUE SIGNAL 1 OUT
- ORANGE - ANALOGUE SIGNAL 2 OUT
- WHITE - Tx COMMS 1 (TRANSMIT)
- GREEN - Rx COMMS 2 (RECEIVE)
- BLUE - SUPPLY 2 (+5VDC ± 0.5VDC REGULATED)
- GREY - Tx COMMS 2 (TRANSMIT)
- VIOLET - Rx COMMS 2 (RECEIVE)

Configuration:	Rotary
Sensing Range:	0-359° (configurable see Note 1)
Air Gap:	<3mm between sensor face and magnet
Supply Voltage:	+5VDC ± 0.25VDC Regulated
Resolution:	12 bit
Update Rate:	5kHz
Output 1:	0.5VDC – 4.5VDC analogue
Output 2:	4.5VDC – 0.5VDC analogue
Supply Current:	nom 45mA per channel @ 5VDC
Reverse Polarity:	Can be connected in reverse for short period without damage.
Sensitivity:	Min. 11mV/Degree
Termination:	Connector optional / cable length 1m
Wiring:	1m, 9 core 24 AWG, Raychem 55 braided & sleeved in RW-200E.
Sensor Dimensions:	Approx. 58mm x 46mm x 21mm (see drawing view)
Housing Material:	Aluminium 6082-T6
Finish:	Hard Anodised
Mounting:	2 x M5 (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:	IP69K
Part Number:	IU-020-03
Target magnet:	Ø12x6mm (Part Number 05-019-01) Other magnet sizes are available on request. Refer to Set-Up Drawing CC-095-02 for installation guide.
Note 1	Customers can recalibrate the sensing range between 0-359° and the output to a specific range (min 0.25VDC / max 4.75VDC) if required. To facilitate this there is a USB comms box (Pt. No. 07-003-01) and a GUI (free) available (Refer to Set Up Drawing CC-095-02).

GENERAL TOLERANCES ALL DIMENSIONS IN mm ISO 2768-FH TOLERANCING ISO 8015 Surface Finish $\sqrt{0.8}$ UNLESS OTHERWISE STATED	FINISH: HARD ANODISE TO DEF STAN 03-26	DEBUR & BREAK ALL SHARP EDGES	03	WIRING DESCRIPTIONS ADDED	30/01/2021	N MEECH	
			02	HOUSING DETAIL UPDATE	26/11/20	N MEECH	
			01	FIRST RELEASE	27/09/2020	N MEECH	
			ISSUE	DESCRIPTION	ISSUEDATE	APPROVED	
DRAWN: N MEECH CHK'D: APPV'D: MFG: Q.A.			DATE: 27/09/2020 THIRD ANGLE			TITLE: HD ROTARY DUAL CHANNEL 5V 150 °C	
MATERIAL: AL 6082 T6			DWG NO.: IU-020-03		A3		
WEIGHT:			SCALE: 1:1		SHEET 1 OF 1		

