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THROTTLE SENSOR DETAIL	FLATS 2,975		December         Ter +40.02 (R50.9906) e-mail: salet@epinoing.oz.uk           0 AP Racing LM 2005         View apricing.oz.uk           2 Date AA         Alterations           2 Date AA         SEE SHEET 1 FOR ISSUE           1         -           SEE SHEET 1 FOR ISSUE         -
PERFORMANCE         Electrical         Measurement range       20° to 360° in 1° increments         Supply voltage       Vdc       9 to 30 (unregulated) and 5 ±0.5 (regulated)         Over voltage protection       Vdc       Up to 40 (-40 to +60°C)         Maximum supply current       mA       <25	45.00° MEASUREMENT RANGE	3.20 FLANGE THICKNESS 4 CORE CABLE 24 AWG	N.
Resolution       %       0.025 of measurement range (12 bit)         Non-linearity*       %       <±0.4		PIVOT SHAFT SLOT DETAIL	к
Monotonic range       Vdc       0.05 (1%) and 4.95 (99%) nominal         Load resistance       10k minimum (resistive to GND)         Output noise       mVrms         Input/output delay       mS         Mechanical       mS         Mechanical angle       360, continuous         Operating torque       g-cm         Weight       g         Mounting       Use 2 x M4 socket head cap screws and M4 washer - maximum tightening torque 2Nm         Phasing       When shaft ident mark is facing toward the cable exit, output is at mid travel.			
Environment       The sensor housing allows for ±10° adjustment via the mounting flange slots.         Environment       Protection class         Protection class       IP68 (to 2m depth for 1 hour)         Life       20 million operations (10 x 106 cycles) of ±75°         Dither life       20 million operations (10 x 106 cycles) of ±75°         Operational temperature† °C       -40 to +140 (5V supply)         -40 to +135.7 (9V supply)       -40 to +135.7 (9V supply)         1.7°C for every 1V increase in supply: e.g40 to +100 @30V         Storage temperature °C       -55 to +140		Electrical Connections         4-core cable: FDR-25 sheathed, with 55A spec (24AWG) cores         Cable colour       Description         Red       +V Supply         Yellow       Output 1         White       Output 2         Black       0V Supply (GND)	o 
Vibration     BS EN 60068-2-64:1995 Sec 8.4 (31.4gn rms) 20 to 2000Hz Random       Shock     3m drop onto concrete       EMC Immunity level     BS EN 61000-4-3:1999, to 100V/m, 80MHz to 1GHz and 1.4GHz to 2.7GHz (2004/108/EC)       Other     45 both channels       Output     Analog voltage       Output direction     Channel 1 clockwise, Channel 2 anti-clockwise       Observation     0.5m		When connecting the sensor, care should be taken with the correct connections. The sensor is provided with reverse polarity protection and short circuit protection between outputs (Yellow & White) to GND (Black), but if the outputs (Yellow & White) are connected to the supply this will result in device failure.	- -
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			SCALE 2:1 SHEET 4 OF 4 DRAWN Steve Thomas APPROVED DERVED FROM TITLE THROTTLE SENSOR
	11 12 13		SENSOR DRG NO. CP5516-88CD