

DRAWING MBER: **D44205**

USED ON
QE12694
BTRONIC

©
DESIGN
COPYRIGHT
RESERVED:

Data Sheet

THIRD ANGLE
PROJECTION

SIZE
A3

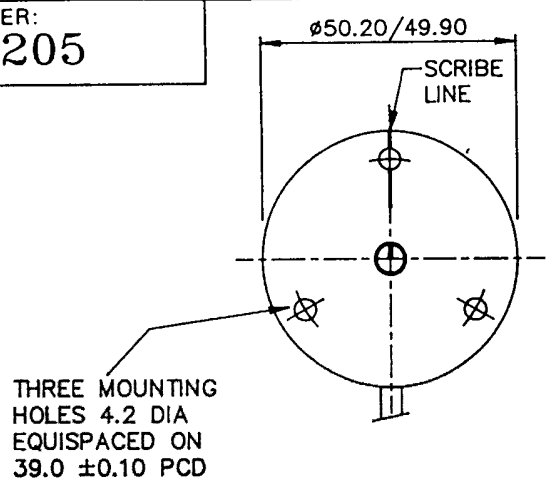
D.O. REFS.
D44044

SUB-MASTER
FROM:..

APPROVED

CHECKED
B.C.

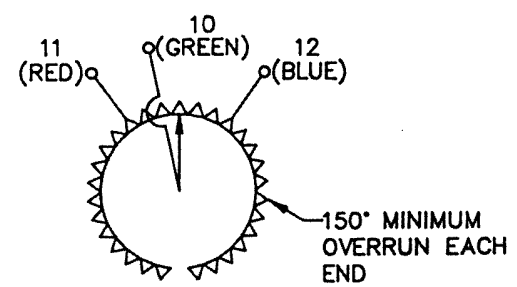
DRAWN
I.HURST



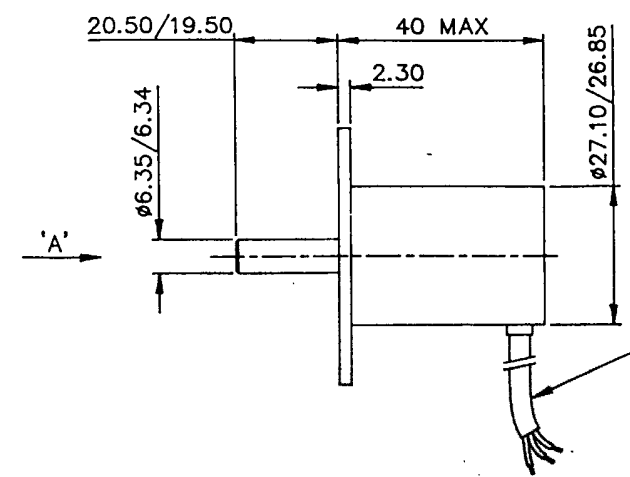
THREE MOUNTING
HOLES 4.2 DIA
EQUISPACED ON
39.0 ± 0.10 PCD

PHASING
WITH NOTCH IN SHAFT IN LINE WITH
SCRIBE MARK AS SHOWN ABOVE, WIPER
IS AT MID ELECTRICAL POSITION ± 5°

**SCHEMATIC WIRING DIAGRAM
VIEWED ON ARROW 'A'**



HYBRID WINDING



3 CORE CABLE 19/0.15
PTFE INSULATED AND
SHEATHED TO BSG210
SCREEN NOT CONNECTED
500mm LONG

SPECIFICATION DATA

RESISTANCE ±10%	2KΩ
ELECTRICAL ANGLE	55° ± 2°
INDEPENDENT LINEARITY	±1.0%
RESOLUTION	VIRTUALLY INFINITE
RESISTANCE TEMPERATURE COEFFICIENT	120ppm
POWER DISSIPATION AT 20°C	0.16 WATT
WIPER LOAD IMPEDANCE	0.5MΩ MINIMUM
INSULATION RESISTANCE	>50MΩ AT 500Vd.c
OUTPUT SMOOTHNESS	MIL-R-39023A GRADE C 0.1%
DIELECTRIC STRENGTH	1000VRMS FOR 5 SECONDS
MECHANICAL ANGLE	360°
SHAFT TORQUE	<200gm cm
OPERATIONAL TEMPERATURE	-55°C TO +85°C
TEMPERATURE	-55°C TO +70°C
PRESSURE	35,000 FEET
HUMIDITY	+20°C TO 35°C RH 95%
VIBRATION	20g (5 TO 150Hz) 2.83g (150 TO 1000Hz)
TEMPERATURE EXPOSURE	+125°C FOR 15 MINUTES
SHAFT END PLAY	.001" TO .003"
SHAFT RUNOUT	.002" T.I.R
LATERAL RUNOUT	.002" T.I.R
SHAFT RADIAL PLAY	.002" T.I.R
BEARING RADIAL LOAD	10LBS MAXIMUM
BEARING AXIAL LOAD	20LBS MAXIMUM
LIFE AT 3Hz OVER ±170°	40 x 10 ⁶ CYCLES
MAXIMUM WEIGHT	75g
WIPER VELOCITY MAX.	3000°/SECOND

**CUSTOMERS
COPY**

Penny+Giles

POSITION SENSORS LIMITED,
Christchurch,
Dorset, U.K.

ISSUE	A	B			
DATE	18/11/91	7/1/92			
CHANGE	HLDRG	BLANCE			
FINISH:—	BODY—ANODISE SHAFT—CLEAN				

MATERIAL:—
BODY—AL ALLOY
SHAFT—ST. STEEL

TOLERANCES
± 0.25

SCALE: 1:1
DIMS: mm

TITLE: **HRP11/1F
SEALED**

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