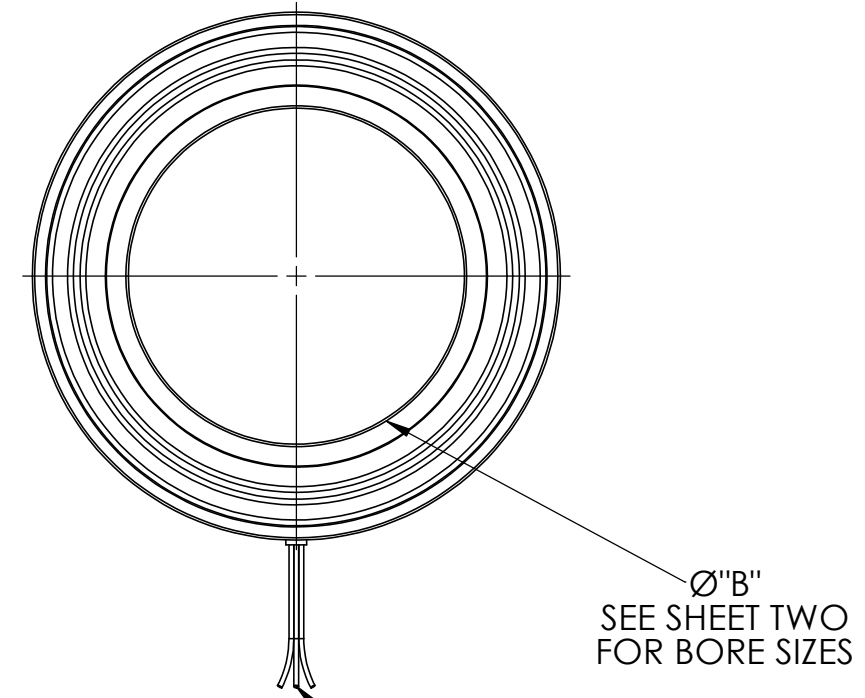
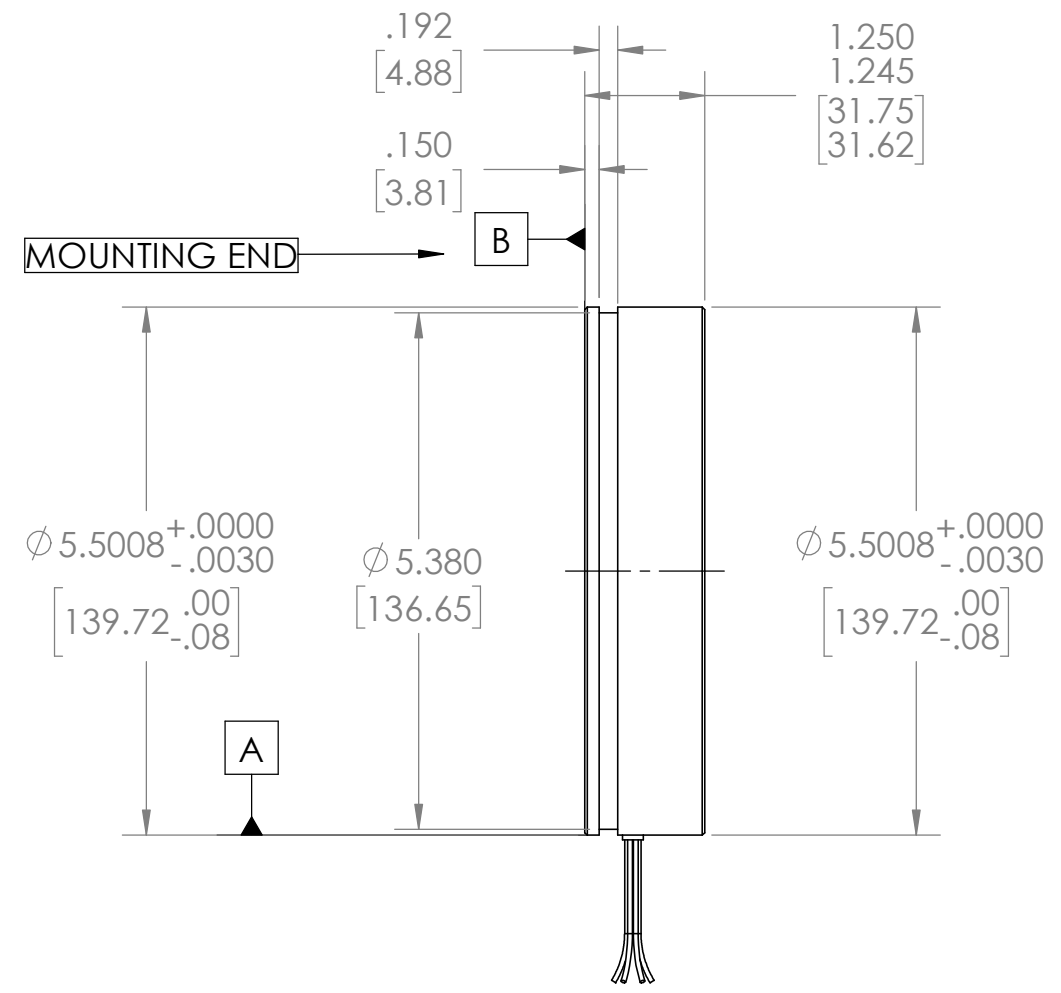


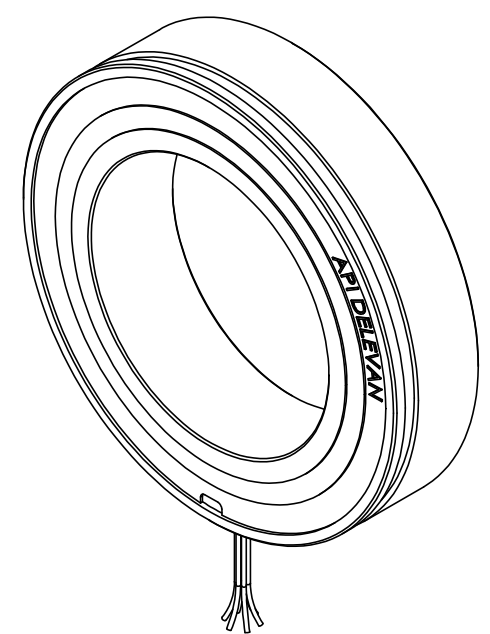
NOTES:

1. ROTOR & STATOR ARE A MATCHED PAIR. DO NOT INTERCHANGE ROTOR OR STATOR BETWEEN RESOLVERS.
2. ROTOR AND STATOR TO BE MOUNTED AXIALLY FLUSH ± .015.
3. CUSTOMER MUST MAINTAIN SHAFT RUNOUT WITH RESPECT TO DATUM 'A' WITHIN .003 T.I.R.

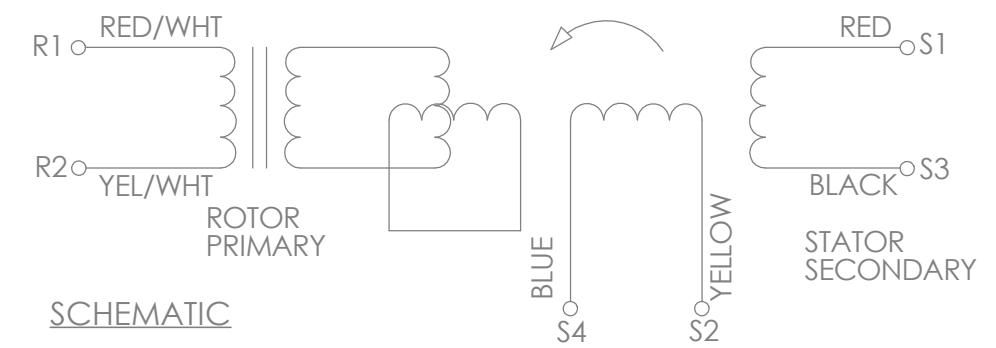


Ø"B"  
SEE SHEET TWO  
FOR BORE SIZES

SEE SHEET TWO  
FOR LEAD OPTIONS



SCHEMATIC



SCHEMATIC

PHASING EQUATION  
FOR CCW ROTATION OF ROTOR FACING  
TRANSFORMER MOUNTING FLANGE END.

$$E(S1-S3) = KE(R1-R2) \cos \phi$$

$$E(S2-S4) = -KE(R1-R2) \sin \phi$$

TECHNICAL INFORMATION		
HIPOT, LEADS TO CASE, 500VAC	Max. mArms	2
HIPOT, INTERPHASE, 250VAC	Max. mArms	2
TEMPERATURE RANGE	°C	-55 TO +200
WEIGHT, APPROX	lbs	3.3

<p>THIRD ANGLE PROJECTION</p>	<p>UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES [mm] DIAMETERS CONCENTRIC .003 [.076] TIR FACES PERPENDICULAR - .003 [.076] INSIDE CORNERS R .015 [.381] MAX INTERPRETATION PER ASME Y14.5M-1994</p>	<p>UNLESS OTHERWISE SPECIFIED: REMOVE ALL BURRS AND BREAK SHARP EDGES - .005/.010[.127/.254]</p> <p>TOLERANCES: DECIMAL .00±.01[.254] .000±.005[.127] ANGLE ±0.5° CHAMFER ANGLE ±10°</p>	<p><b>API DELEVAN</b> <a href="http://www.delevan.com">http://www.delevan.com</a></p>
	<p>MATERIAL -</p> <p>FINISH -</p>	<p>MACHINE SURFACES 63</p> <p>APPROVALS - DATE -</p> <p>CHECKED -</p> <p>DES ENG -</p>	<p><b>55BRCX</b></p> <p>SIZE B DWG. NO.</p> <p>SCALE SHEET 1 OF 3 CODE IDENT: 99800</p>

**PART, ASSEMBLY AND ALL COMPONENTS  
MEET EU ROHS DIRECTIVE**

REVISIONS				
REV	ECO	DESCRIPTION	DATE	CHECKED
-	-	NEW DRAWING		

# NUMBERING


## 55BRCX-XXX-XXXX-XXXX

PLEASE CONTACT FACTORY FOR OTHER ELECTRICAL AND MECHANICAL OPTIONS.

SIZE  
55

STYLE OF RESOLVER:  
FRAMELESS

PILOT NUMBER	STYLE	WINDING NUMBER	Vrms	KHz	ma m Ar ms	Tr	SPEED	ACCURACY ±arcmin	BORE LETTER	BORE	"B" DIAMETER	CABLE DESIGNATION	CABLE	LEAD	LENGTH
														01	12[305]
500	SERVO MOUNT 5.50 [139.7]OD 1.25 [31.75] LONG	009	4.25	7	55	.47	1	30	A	3.50 INCH	3.500/3.5015 [88.9/88.94]	05	26 AWG FLYING LEADS	02	15[381]
		217	4.25	7	55	.47	12	4				07	24 AWG FLYING LEADS W/TUBING	03	24[609]
		218	4.25	7	55	.47	8	8	E	3.65 INCH	3.6500/3.6515 [92.71/92.75]	08	24 AWG HIGH TEMP FLYING LEADS	04	60[1524]
		219	4.25	7	55	.47	16	4				09	24 AWG 3 TWISTED PAIRS	05	80[2032]
520	SERVO MOUNT 5.50 [139.7]OD 1.25 [31.75] LONG	220	4.25	7	55	.47	4	10				11	22 AWG 4 TWISTED PAIRS W/TUBING	06	120[3048]
												12	AWG 24 FLYING LEADS		
												20	RADIATION HARDEN 26 AWG FLYING LEADS		



THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN INCHES [mm]  
DIAMETERS CONCENTRIC .003 [.076] TIR  
FACES PERPENDICULAR .003 [.076]  
INSIDE CORNERS R .015 [.381] MAX  
INTERPRETATION PER ASME  
Y14.5M-1994

UNLESS OTHERWISE SPECIFIED:  
REMOVE ALL BURRS AND BREAK  
SHARP EDGES -.005/.010

TOLERANCES:  
DECIMAL .00±.01 [.254] .000 ±.005 [.127]  
ANGLE ±0.5°  
CHAMFER ANGLE ±10°

MACHINE SURFACES  $\sqrt{63}$

**API DELEVAN**  
<http://www.delevan.com>

**55BRCX**

MATERIAL	-	APPROVALS	DATE
FINISH	-	CHECKED	-
		DES ENG	-

SIZE	DWG. NO.
B	

SCALE: SHEET 2 OF 3 C.CODE IDENT: 58655

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF API DELEVAN. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF API DELEVAN IS PROHIBITED.